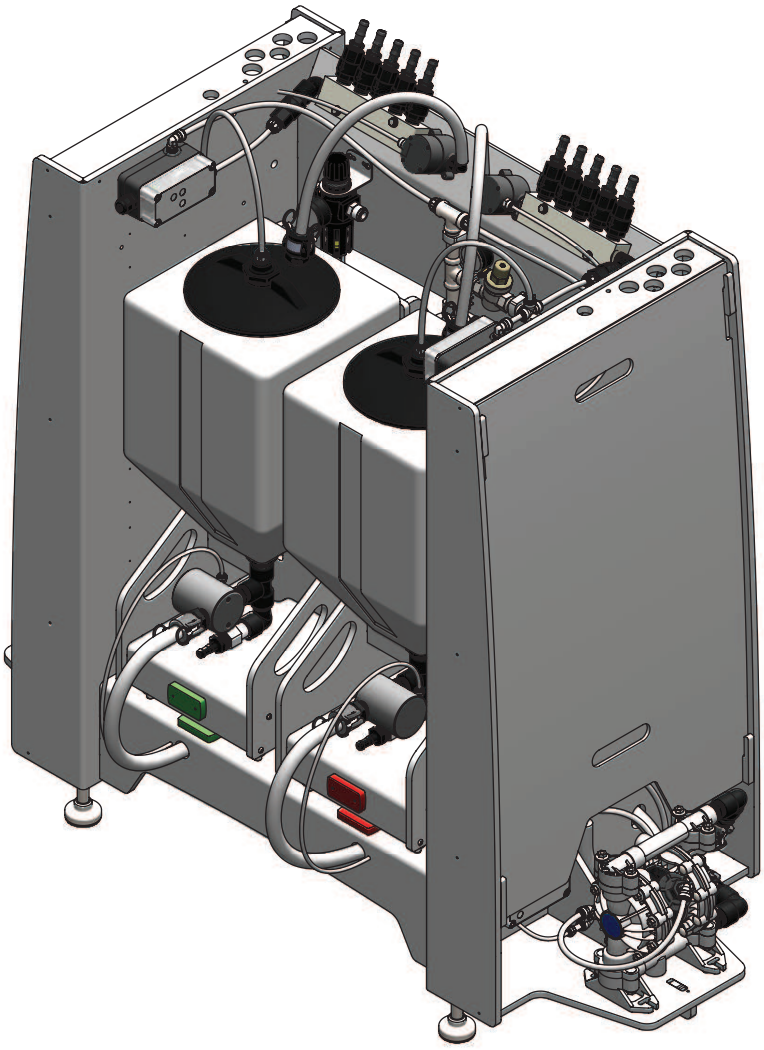
USER MANUAL

MODEL NUMBER:
ALX-RDS

Remote Delivery System

English (Original Instructions)

CleanLogix
Integrated • Sanitation • Intelligence



READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

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READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

WARNING

Avoid Personal Injury

1. Avoid contact of cleaning agent with skin and eyes. If contact occurs, see MSDS sheet for further first aid measures.

2. Follow safety instructions of chemical manufacturer (MSDS).

3. Always follow plant and OSHA guidelines about the use of hygiene equipment.

4. Disconnect power before servicing unit.

Specifications

Frame.....1/2 HDPE Plastic

Width.....59”

Depth.....30”

Height.....51”

Water Connection Requirements

Cold Potable Water
35 PSI Minimum Pressure
60 PSI Maximum Pressure
5 GPM Connection

Electrical Connection Requirements

110 Volts AC
Single Phase
60 Hz
5 Amps
24 VDC - Control Voltage (Unit has internal power supply)

Acceptable Chemical Products

Acids

Caustics

Sanitizers

Chlorine

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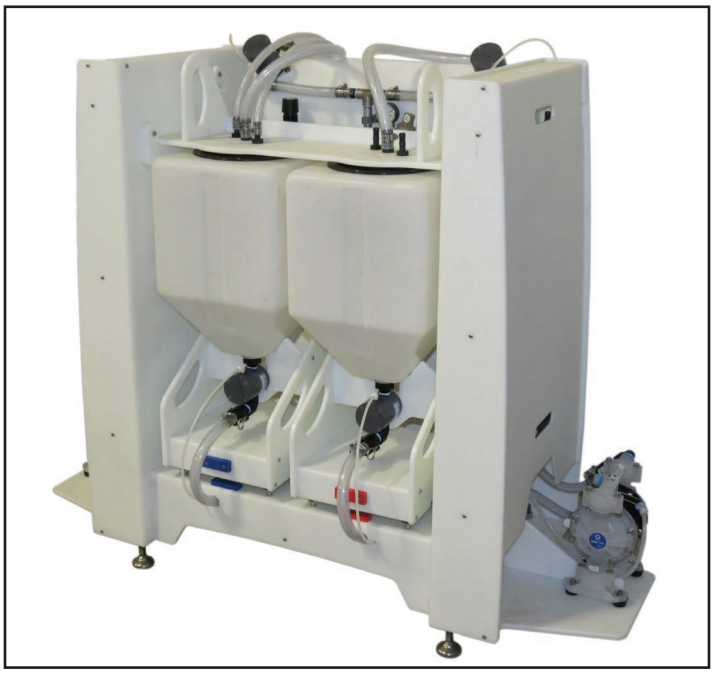
Installation Instructions



Tower

Set unit in desired location.

Aspects to consider when deciding on placement:

- Room for entering and exiting.
- Emergency exit paths.
- Space to access control box.
- Connections for water, air, and chemical lines.

Once the unit has been positioned correctly, level the unit using the adjustable feet.

Control Box

Aspects to consider when deciding on placement:

- Distance to electrical connection.
- Cell signal strength (for the 3G router inside box)
- Distance from tower and pump controllers.

Attach the included mounting feet to the back of control box with a phillips screwdriver.

Securely mount control box to wall, then plug into 115 volt wall outlet.

Open the box and look for 3 green lights on the router to turn on - signaling there is full cell service.

If there are only 2 green lights and 1 orange light, the cell box has low signal in the building, but still has internet access.

Red lights show that the router has no service. Move the box until an area with decent cellular service is found.

READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Pump Controllers Board

The pump controllers are comprised of a circuit board and solenoid to control air flow to each air operated double diaphragm pump.

When a pump controller is turned on, the solenoid will open and send air out to its corresponding AODD pump, which will send chemical through the lines into the 10 gallon tanks mounted on the ALX-RDS.

Place pump controller board(s) in desired location.

Aspects to consider when deciding on placement:

- Number of pump controllers.
- Distance between the pumps and their pump controllers.
- Quantity of hose and tubing available to make connections.

Securely mount the board(s) to wall.

The pump controllers come pre-daisychained with their CAN lines & 3/8” air lines. Use the provided 5m CAN cable to connect multiple pump controller boards together if the system comes with more than one board.

Connect the end of the CAN line on the pump controller board to the CAN cable on the control box.

String 3/8” airlines from the “Air Out” connection on the pump controllers to each corresponding pump to finish installation.

Turn the control box on by pulling out on the red E-stop mounted on the right side of the box, then check for a green light on each pump controller, signaling power.

NOTE: The pumps require clean, dry air for proper operation. The customer is responsible for installing an air regulator before the pump controllers to ensure correct operation of the solenoids. Do not use lubricated air with this system.

Air In from Air Supply

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Pump Inlet Manifold

The 10 gallon tanks will already have the water lines from the water supply running into the top of them for the tank rinse and manifold flush, so the only hoses that need to be connected are the chemical lines from the pumps.

Connect the outgoing hose from the pump output onto the check valves on the Pump Inlet Manifold, using a hose clamp on each hose.

Make sure the hose is all the way on the hosebarb before tightening the hose clamp.

Make sure acids run into one manifold and caustics run into the opposite one.

Once all of the chemical lines have been run, the Air and Water supply can be setup.

READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Air and Water Supply

The Air and Water regulators are mounted behind the two 10-gallon tanks.

Connect 1/2” tubing for the water line from the plant’s water supply into the “Water In” connection.

Turn the water supply on to the system.

Use a flathead screwdriver to adjust the water pressure if needed.

Clean Logix recommends setting the water pressure between 40 & 60 PSI.

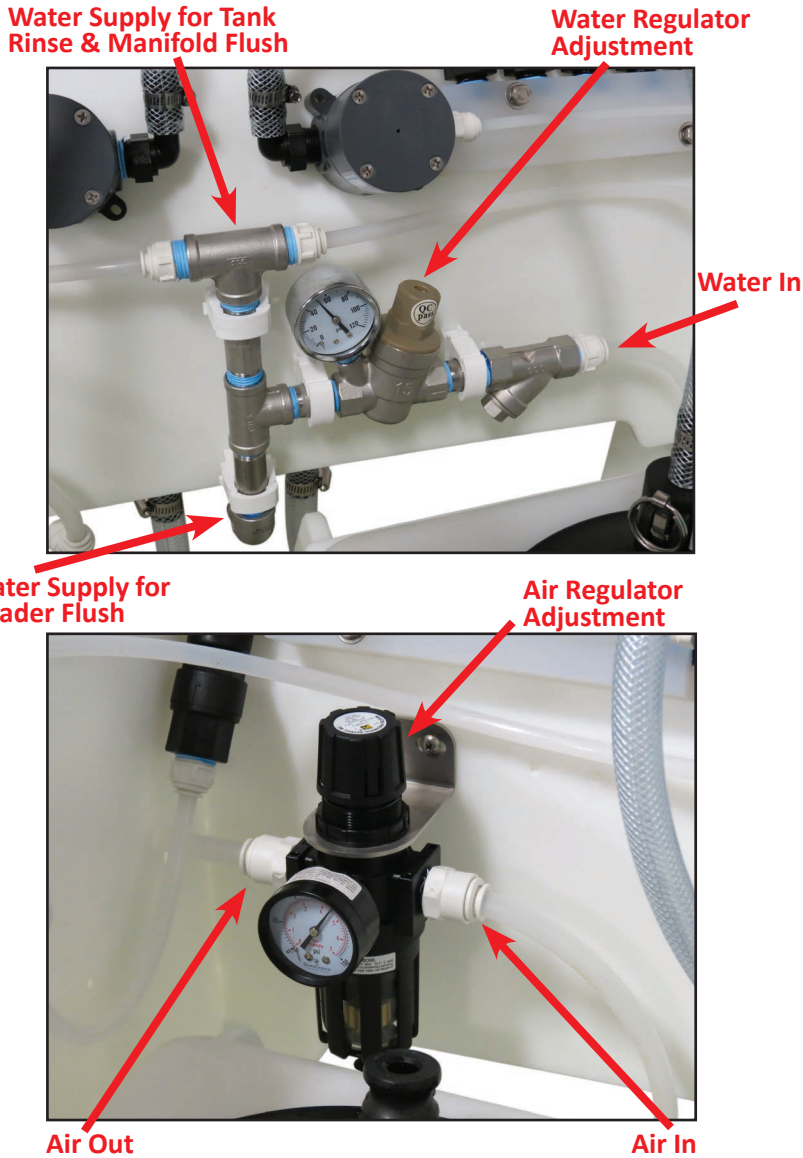
The water regulator splits off into 2 separate T connectors. The top T sends water to the Manifold Lock devices, which T off into lines for the tank rinse and the pump inlet manifold flush.

The bottom T sends water to the header flush valve mounted on the destination manifolds on the sides of the tower.

Connect 1/2” tubing for the air line from the plant’s air supply into the “Air In” connection.

Use the knob on top of the air regulator to adjust the pressure. Clean Logix recommends setting the air pressure between 60 & 80 PSI.

The 1/2” Air Out line feeds into the pump controllers mounted on the left side of the unit, which feed underneath the tower to the pump controllers on the right side of the unit. Once the air lines have been connected and turned on the Air and Water supplies are fully setup.



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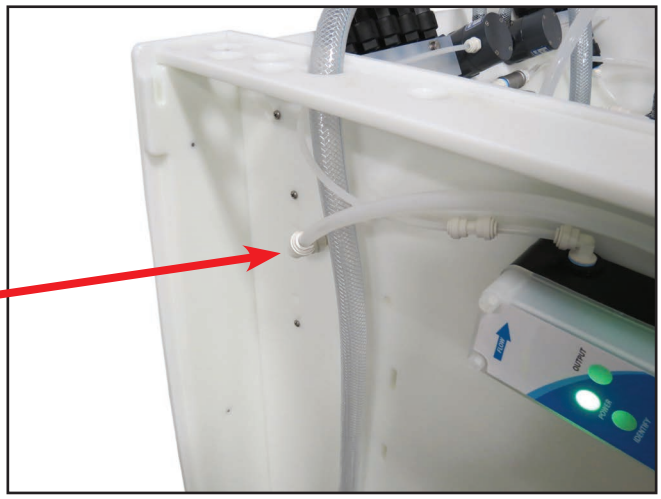
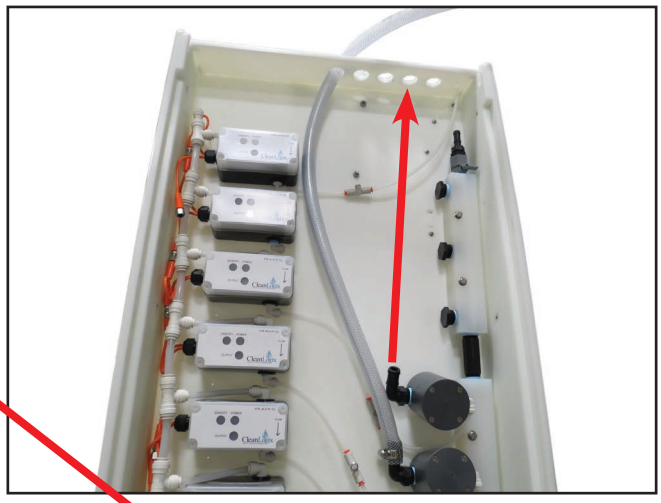
Destination Valves

Remove the 1/4” HDPE plastic wall on the side of the unit to gain access to the destination valves and pump controllers.



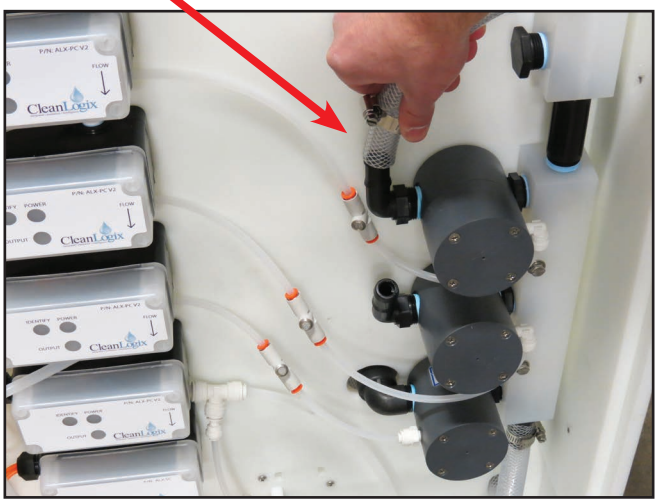
The 1/2” air line that comes from the Air Regulator feeds into the destination pump controllers mounted on the left side of the tower.

The air and CAN lines for the pump controllers run underneath the tower from the left side to the right side, so no additional air or CAN lines will have to be run within the tower.



Run 3/4” hose from the grey plast-o-matic valves through the pre-cut holes on the top of the unit and out to the destinations where the chemical will be sent.

Be sure to secure the hose connections with hose clamps.

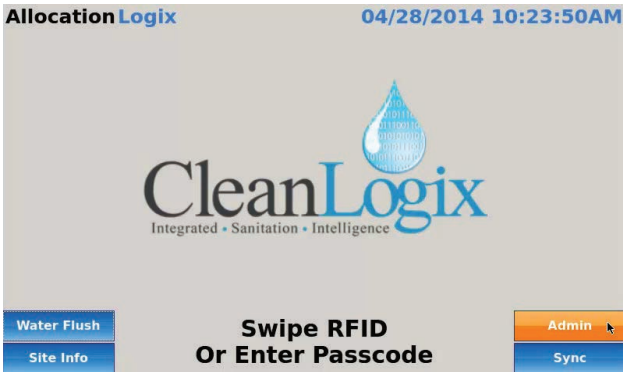


READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Setup Instructions

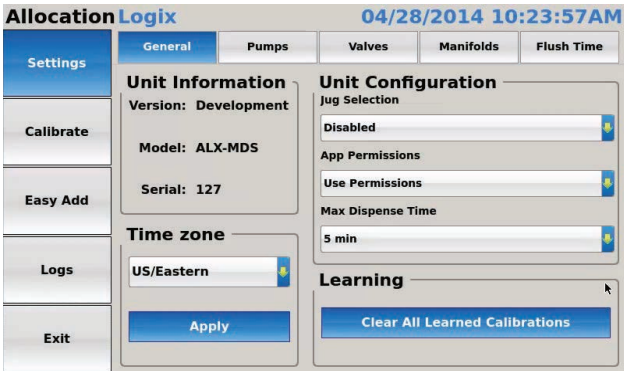
General Settings

To edit the General Settings, first log into the Admin screen by selecting the “Admin” button on the bottom right of the screen and typing in the 4-digit administrator passcode.



The Admin screen will automatically time out and bring the user back to the home screen after 10 minutes of inactivity for security purposes.

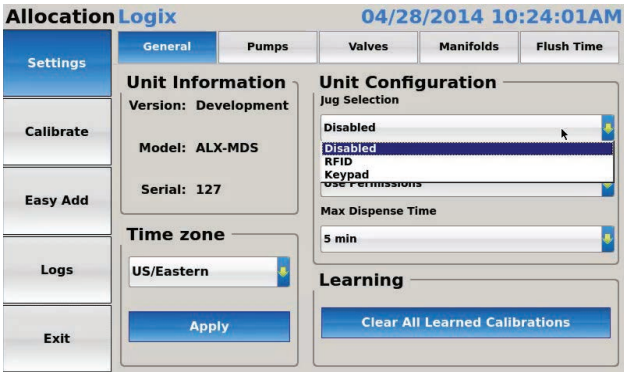
Click the “Settings” tab on the left side of the screen.



Under the “General Settings” tab, jug selection, software version, model, and serial number can be viewed.

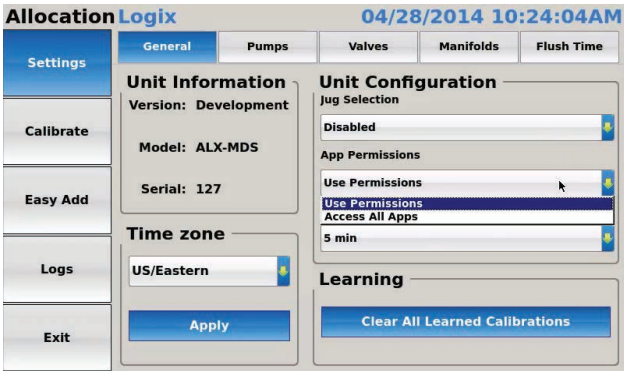
To change the Jug Selection type, click on an option from its drop-down menu.

- **Disabled:** This option does not require anything before a dispense.
- **RFID:** This option requires an RFID card for the jug to be swiped before a dispense.
- **Keypad:** this option requires a user to type in a 4 digit code for the jug before a dispense.



NOTE: Since the ALX-RDS includes two 10-gallon tanks that are mounted inside the unit, any Jug Selection options will be invalid. The Jug Selection options are for the ALX-600 system, which requires jugs to be placed on the scale before each dispense.

Dispense Applications (Dispense Recipes) are assigned permissions on Cleanintel.com. To tell the unit to reference those permissions (how many times the application can be dispensed by a user within a 24 hour period) select “Use Permissions.”



If permissions do not matter and anyone is allowed to dispense any application freely, select “Access All Apps.” When users dispense applications then, their permissions will appear as “9999 Uses Left.”

READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

General Settings (Continued)

The Max Dispense Time sets a time limit for weight-based applications to dispense within. This safety feature provides partial protection against accidental overflows when dispensing. To change the time limit, select an option from the dropdown menu.

Example: A user starts to dispense a 1 gallon application, but forgets to place the jug on the scale. The unit will continue to dispense for forever since the scale is not reading any increases in weight.

If the Max Dispense Time is set at 5 minutes, the dispense will automatically terminate after 5 minutes, therefore preventing chemical being dispensed all over for an unlimited amount of time.

If large amounts of chemical are being dispensed, the Max Dispense Time must be set in a way that will not end the dispense before it is done.

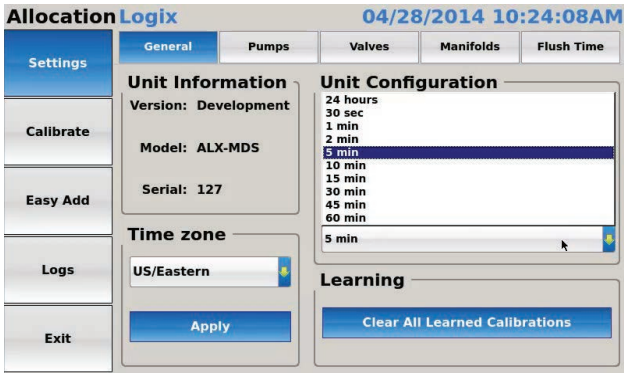
NOTE: Since the ALX-RDS includes two 10-gallon tanks that are mounted inside the unit and have hoses running directly into them, the Max Dispense Time options will be invalid for protecting against accidental incorrect jug placement by users. The Max Dispense Time features are for the ALX-600 system, which requires jugs to be placed on the scale for each dispense.

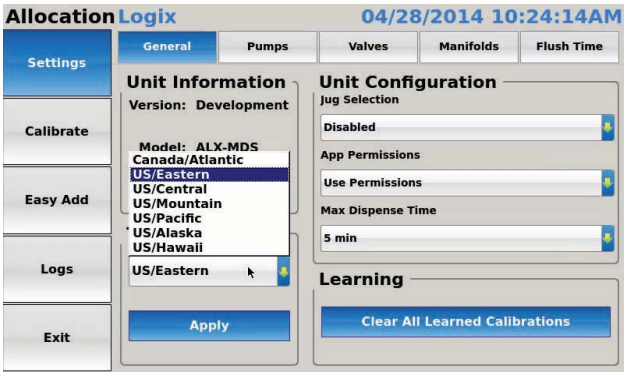
To change the timezone on the unit, select a new one from the dropdown menu.

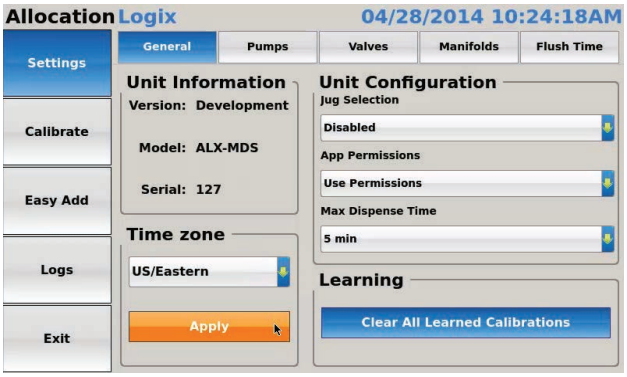
Click “Apply” to save any changes made on this page.

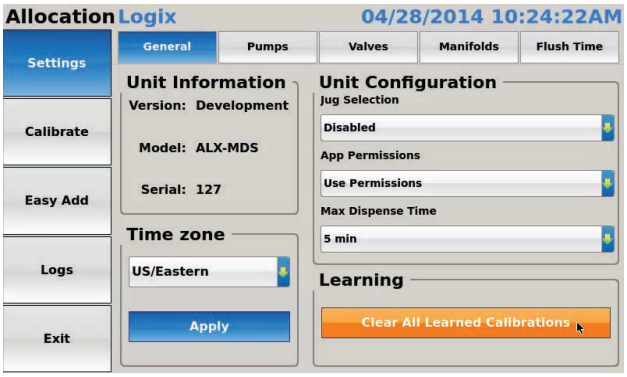
Every time the unit dispenses, it records the weight and time, creating a learning algorithm to help it dispense accurately every time. Clicking “Clear All Learned Calibrations” will erase the logs of the dispenses, making the unit have to “relearn” how to dispense applications again.

Clicking this will not stop the unit from being able to perform, but it may take 4 to 5 dispenses again before the unit’s calibrations are exact again.





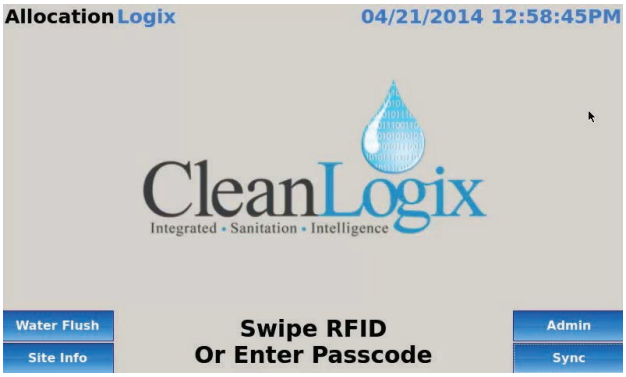




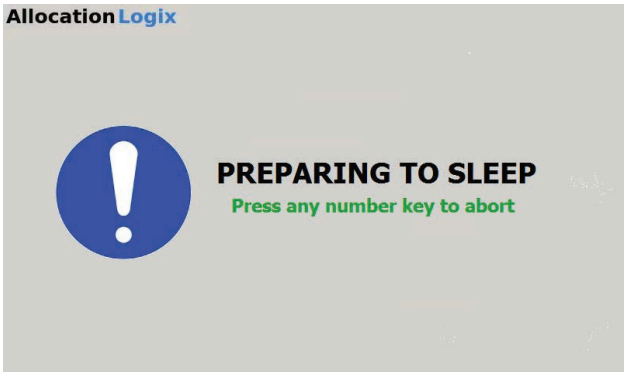
READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Sleep Function

To prevent the computer from building up too much heat inside the control box, the unit will begin a "Sleep Function" after 90 minutes of inactivity.

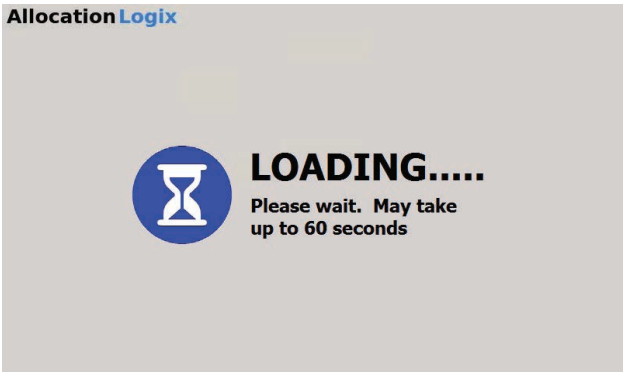


After 80 minutes of inactivity, the unit will load a screen that says "Preparing to Sleep." This screen will appear for 10 minutes before turning the screen off. Press any number key on the keypad to remove this screen and go back to the home page.



When the unti goes to sleep, the screen will turn off, but the blue light on the monitor, the red light on the RFID reader, and the green lights on the pump controllers will all stay on.

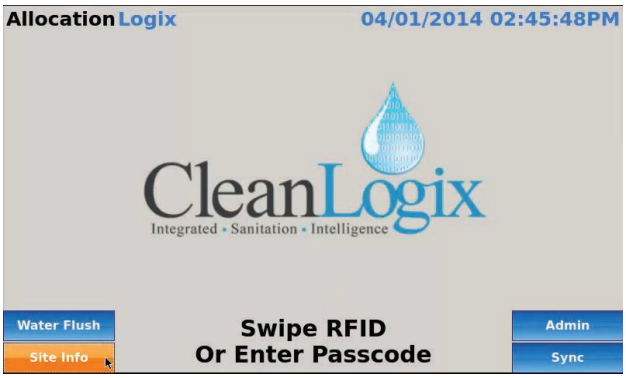
To wake up the unit, simply move or click the mouse on the control box. This will bring up a loading screen where the unit will "wake up," which will take between 30 and 60 seconds.



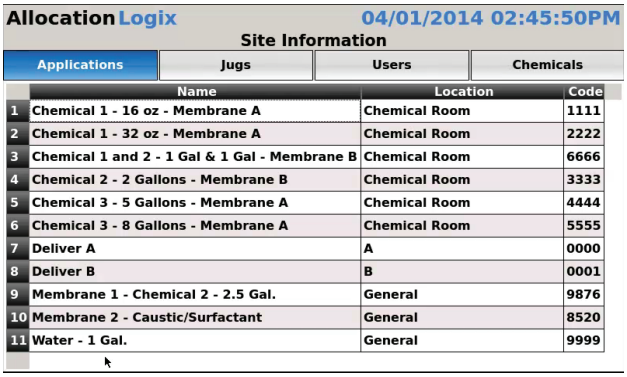
Once the home screen appears, the unit can be used again.

READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Site Info

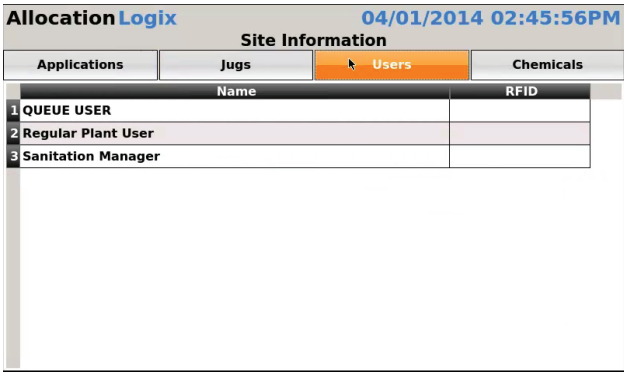


To view the Site Information on this specific unit, click "Site Info" in the bottom left corner of the screen.



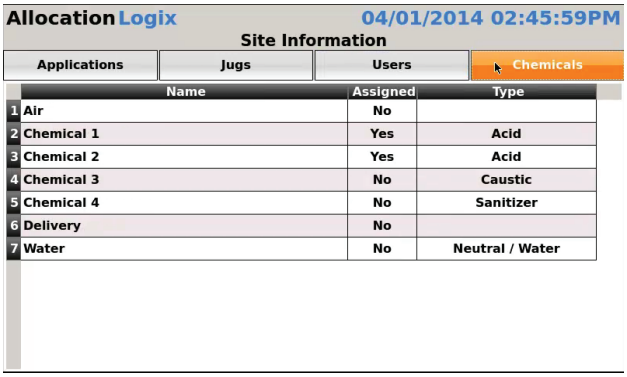
	Name	Location	Code
1	Chemical 1 - 16 oz - Membrane A	Chemical Room	1111
2	Chemical 1 - 32 oz - Membrane A	Chemical Room	2222
3	Chemical 1 and 2 - 1 Gal & 1 Gal - Membrane B	Chemical Room	6666
4	Chemical 2 - 2 Gallons - Membrane B	Chemical Room	3333
5	Chemical 3 - 5 Gallons - Membrane A	Chemical Room	4444
6	Chemical 3 - 8 Gallons - Membrane A	Chemical Room	5555
7	Deliver A	A	0000
8	Deliver B	B	0001
9	Membrane 1 - Chemical 2 - 2.5 Gal.	General	9876
10	Membrane 2 - Caustic/Surfactant	General	8520
11	Water - 1 Gal.	General	9999

Here the Applications and their codes, Jugs, Users, and Chemicals assigned to this unit can be viewed.



	Name	RFID
1	QUEUE USER	
2	Regular Plant User	
3	Sanitation Manager	

If a user forgets the code of an application they need to dispense, they can simply look it up in the Site Info tab.

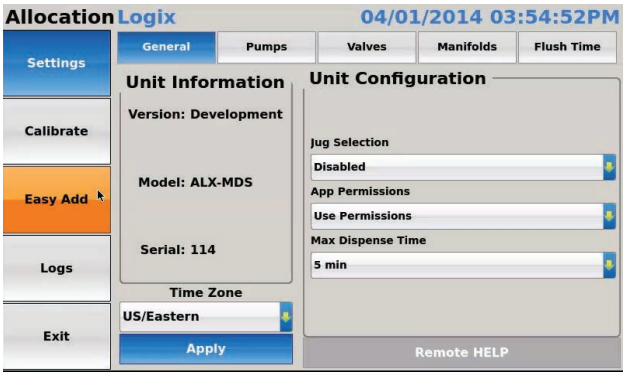


	Name	Assigned	Type
1	Air	No	
2	Chemical 1	Yes	Acid
3	Chemical 2	Yes	Acid
4	Chemical 3	No	Caustic
5	Chemical 4	No	Sanitizer
6	Delivery	No	
7	Water	No	Neutral / Water

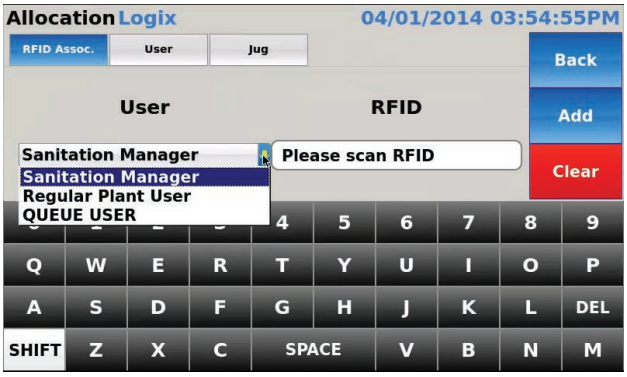
READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

RFID Association

To associate an RFID card to a user in the system, allowing them to log in by swiping their card, log into the Admin screen by selecting the “Admin” button on the bottom right of the screen and typing in the 4-digit administrator passcode.



Select “Easy Add” on the left side of the screen.



Select a user from the dropdown menu.

Once the user is selected, scan the corresponding RFID card to enter it into the system.

Once the card has scanned, the code will appear in the text box. Click “Add.”

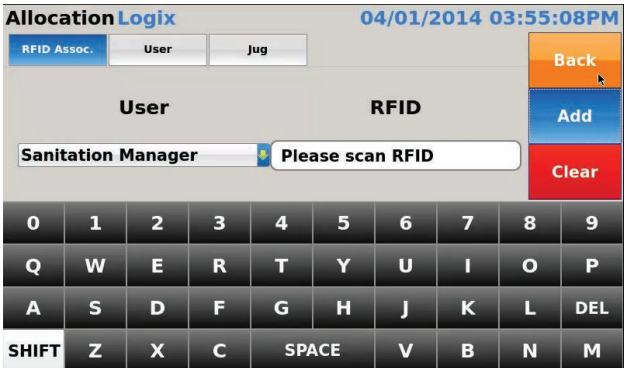
READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

RFID Association (Continued)

A dialog box will appear saying “RFID Added Successfully.” Click “OK” to clear this message.

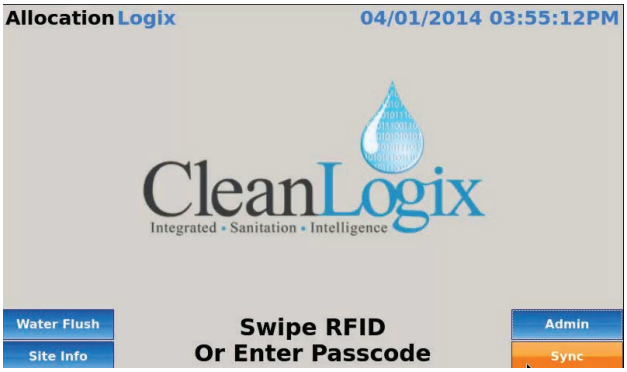
If the dialog box says “Easy Add Failed,” ensure that the unit has an internet connection, reboot the unit, and attempt to Easy Add again.

Press “STOP” twice or press the HOME key to return to the home screen and sync the unit. This will send the RFID information up to cleanintel.com. *(See Page 29 for instructions on syncing).*

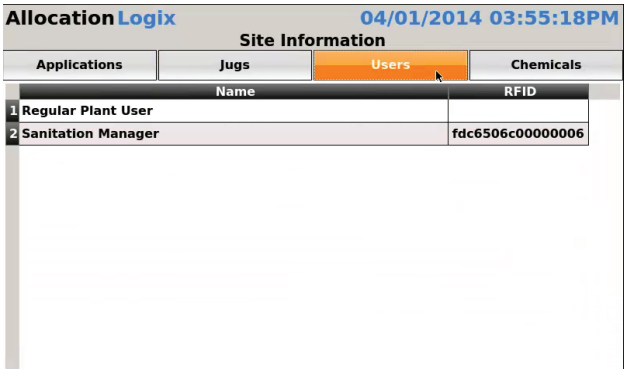


Once the sync has finished, the user will be able to log in by swiping that RFID card.

If the user looks at “Users” under Site Info, they will see the RFID number assigned to them if there is one.



Repeat this process for as many users and RFID cards as required. *Syncing must occur between each user*. Each user must be synced one at a time.



NOTE: Only one card can be assigned per user, and cards cannot be shared between other users.

READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Pump Controller Settings

To be able to dispense chemical with the ALX-RDS, the following items must be setup under the Pump Controller settings:

- Each chemical being dispensed must be be assigned to a pump controller.
- Water must be assigned to a pump controller.
- The Delivery Pump (the pump mounted on each side of the MDS that sends the chemical from the tanks to the destinations) must be assigned to a pump controller.
- Each Destination (where the chemical will be sent) must be assigned to a valve.
- The Water Flush must be assigned to a valve.
- The Manifold Lock must be assigned to a valve.

To edit Pump Controller Settings, log into the Admin screen by selecting the “Admin” button on the bottom right of the screen and typing in the 4-digit administrator passcode.

Click on the “Settings” tab on the left side of the screen, then click on the “Pumps” tab near the top of the screen. This will bring up a list of all the pump controllers connected to this unit.

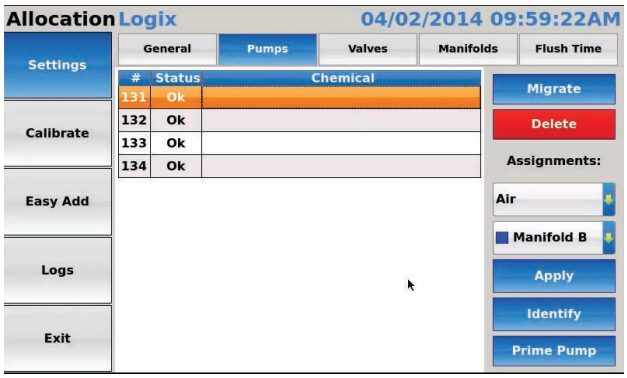
Connected pumps will appear as “Ok” while disconnected pumps will appear as “Missing.” If a pump is missing, check its connections to the unit and see if it has a green light, signaling power.

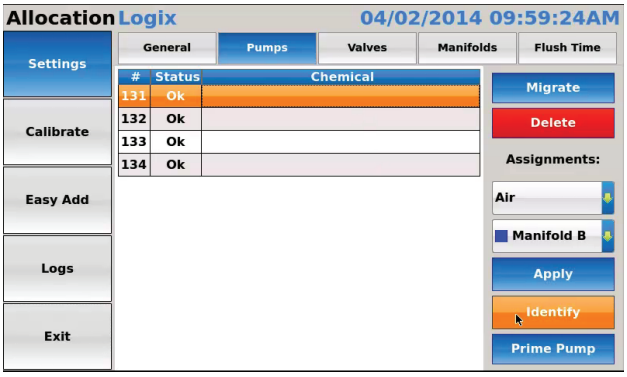
Select a pump from the list by clicking on it. The selected pump will be highlighted in orange.

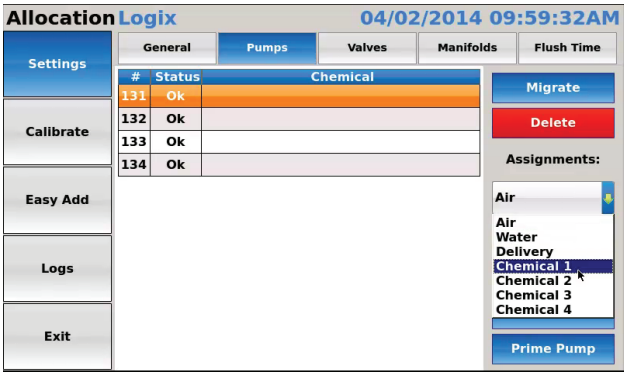
Click “Identify” to make the pump controller blink red for a few seconds. This allows a user to ensure that the pump controller they are editing is connected to the right pump.

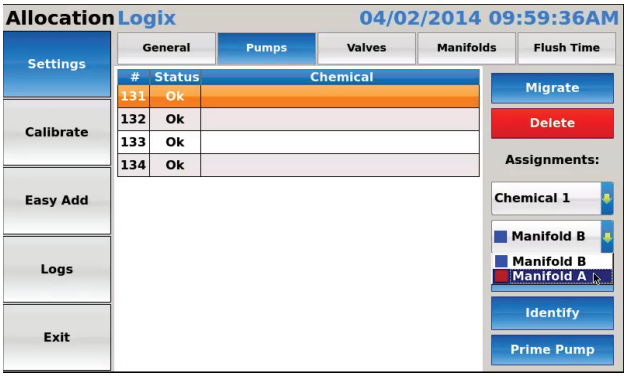
To change the assignment of a pump (which chemical it’s set up to dispense) select the pump and click the “Assignments” tab. This brings up a list of all the chemicals that are set up on this unit. Select the chemical that this pump will be dispensing.

Next, click the button underneath the “Assignments” tab that says “Manifold A.” Here a user can tell the unit which dispense manifold this chemical is located on (acids or caustics).









READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

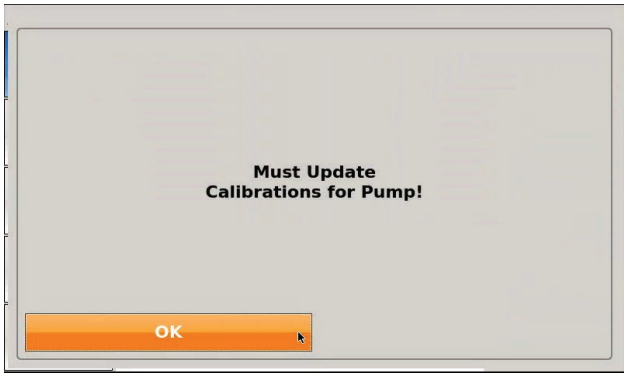
Pump Controller Settings (Continued)

Click “Apply” to finalize changes.

After clicking “Apply,” a dialog box will appear saying “Must Update Calibrations for Pump!”

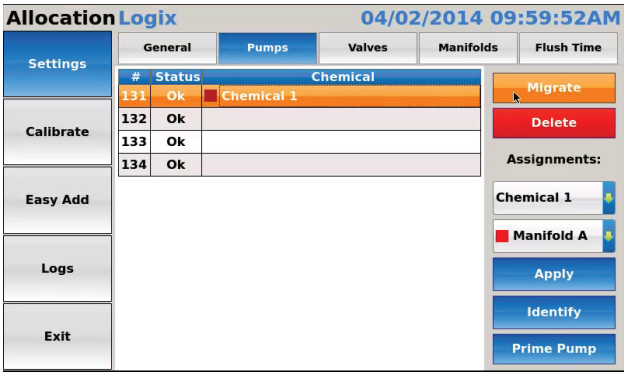
This message only applies if the pump is going to be dispensing chemical by calibrated time.

NOTE: Since the ALX-RDS includes two 10-gallon tanks that are mounted on top of the scales, it will not need to dispense applications via time-based dispensing, meaning that pump controllers shouldn’t ever need to be time calibrated. Pump calibrations are for the ALX-600 system, which can dispense to foamers or bulk tanks that cannot be measured by weight when dispensing.

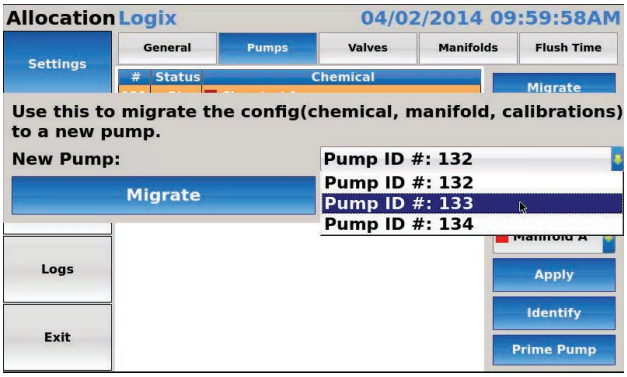


Migrating Pumps

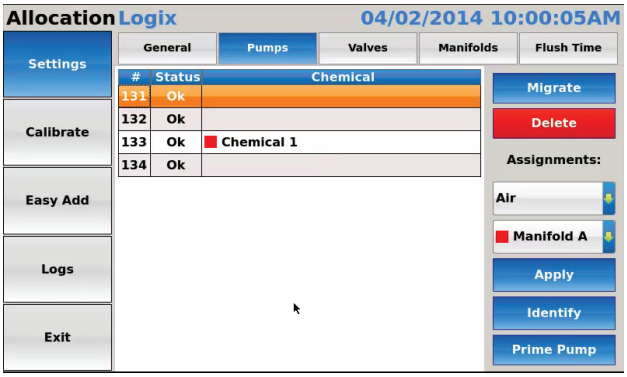
To move a pump’s settings (including calibrations and assignment) to a different pump controller, select the pump to be moved and click “Migrate.”



This brings up a dialog box that asks which new pump the old pump’s configuration will be moved to.



Select the pump controller from the dropdown menu and click “Migrate.”

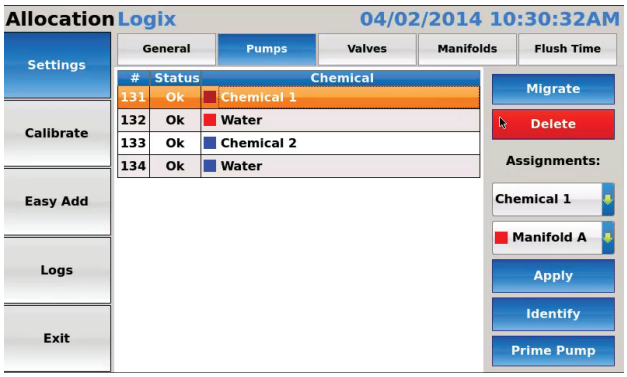


If the new pump controller had no chemicals previously assigned, the process will be complete. If the new pump controller had a previous assignment, an alert will appear warning that the previous configuration will be overwritten.

READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

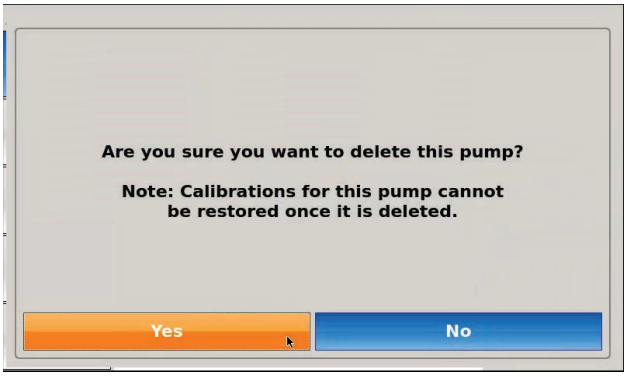
Deleting Pumps

To remove a pump from the system, select the pump and click “Delete.”



This will bring up a dialog box for confirmation.

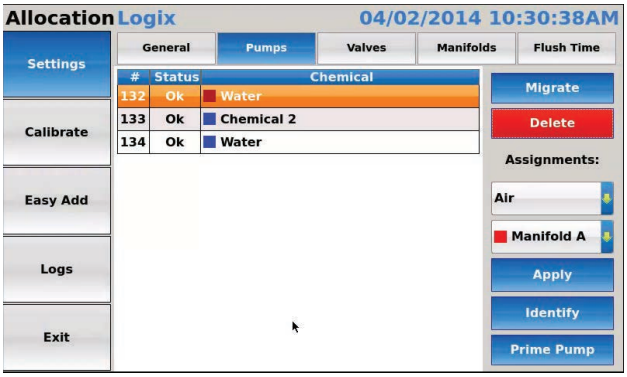
If the unit dispenses applications by calibrated time, the calibrations will be removed and have to be added again later.

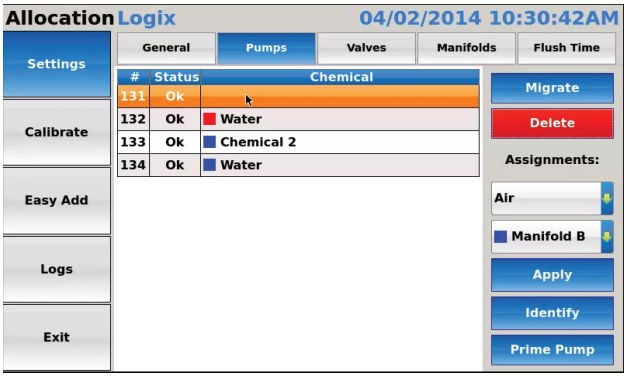


Click “Yes” to remove the pump.

Deleting pumps should be a rare occurrence and should only happen when a pump controller breaks and is replaced.

If the pump controller is not broken, but is deleted, it will automatically show up in the list of pumps again with no assignments.





READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Destination Valve Settings

To edit Destination Valve Settings, log into the Admin screen by selecting the “Admin” button on the bottom right of the screen and typing in the 4-digit administrator passcode.

The following steps are very similar to assigning chemicals to pump controllers.

Click on the “Settings” tab on the left side of the screen.

Click on the “Valves” tab near the top of the screen. This will bring up a list of all the Destination Valves assigned to this unit. At least one valve must be assigned to “Flush” and one must be assigned to a destination before the unit can dispense.

Connected valves will appear as “Ok” while disconnected valves will appear as “Missing.” If a valve is missing, check its connections to the unit and see if it has a green light, signaling power.

Select a valve from the list by clicking on it. The selected valve will be highlighted in orange.

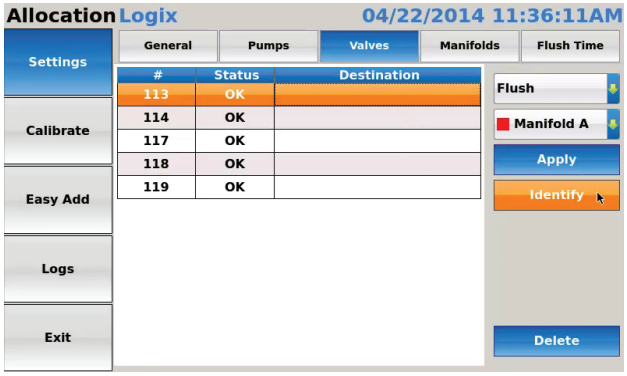
Click “Identify” to make the valve controller blink red for a few seconds. This allows a user to ensure that the valve controller they are editing is connected to the right valve.

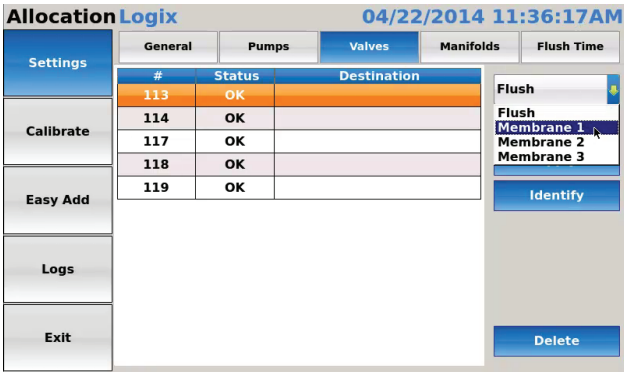
To change the assignment of a valve (which destination it’s set up to send chemical to) select it and click the “Assignments” tab. This brings up a list of all the destinations that are set up on this unit.

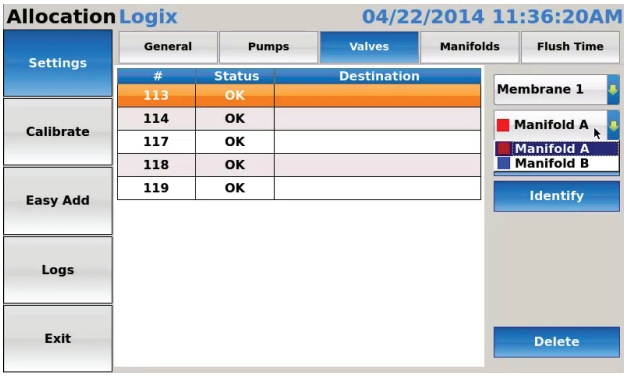
Select the membrane to which this valve will be sending chemical.

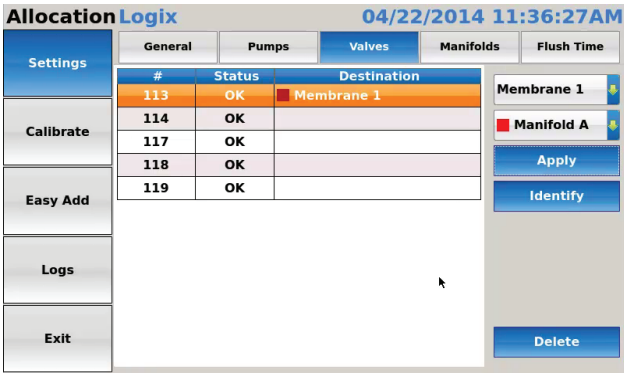
Next, click the button underneath the “Assignments” tab that says “Manifold A.” Here a user can tell the unit from which dispense manifold this destination will receive the chemical.

Click “Apply” to finalize changes.









READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Deleting Valves

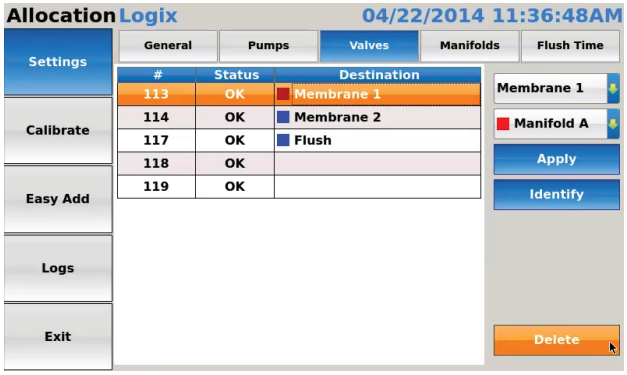
To remove a destination valve from the system, select the pump and click “Delete.”

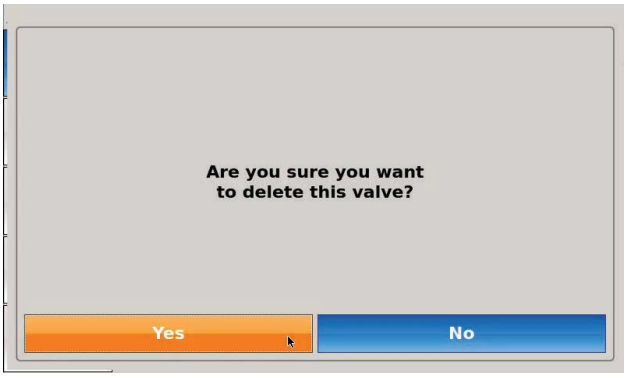
This will bring up a dialog box for confirmation.

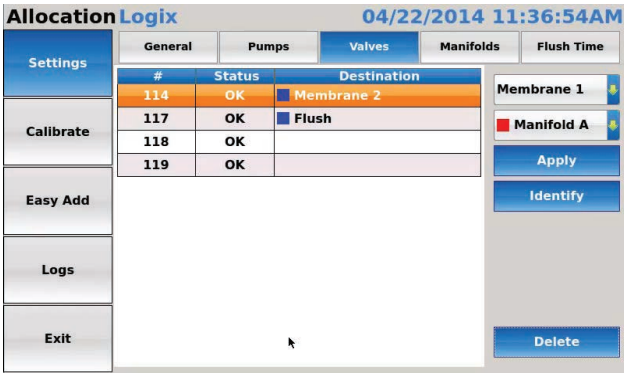
Click “Yes” to remove the valve.

Deleting valves should be a rare occurrence and should only happen when a valve controller breaks and is replaced.

If the valve controller is not broken, but is deleted, it will automatically show up in the list of valves again, but with no assignments.







READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

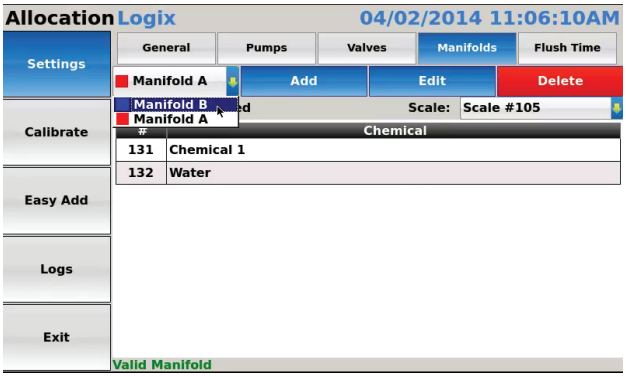
Manifold Settings

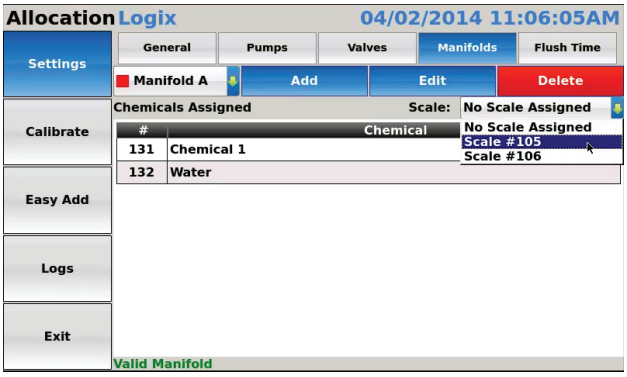
To edit Manifold Settings, log into the Admin screen, click on the "Settings" tab on the left side of the screen, and click on the "Manifolds" tab near the top of the screen. This will bring up a list of all the chemicals assigned to the different manifolds on this unit. To view different manifolds, click on the drop-down menu and select one.

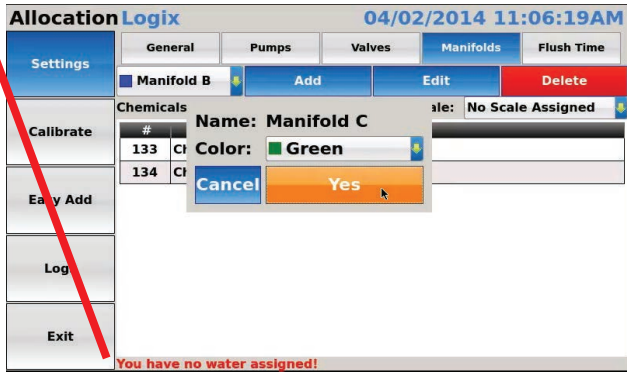
See Page 14 for instructions on assigning water and chemicals to pumps and manifolds."

The "Manifolds" tab is where users can see which chemicals and pumps are assigned to which manifolds so that they can be certain that acids are all together on one manifold and all caustics are on another.

If Water is assigned to the manifold, it will appear as a "Valid Manifold." If there is no water assigned (meaning that manifold cannot do a post-dispense water rinse), the unit will show "You have no water assigned."







Assigning Scales to Manifolds

Before the unit can dispense, each manifold must have a scale assigned to it. Select a scale from the drop-down list on the right side of the screen. Be sure to assign the correct scale to the correct manifold.

Adding Manifolds

A manifold can be added in the software by clicking "Add."

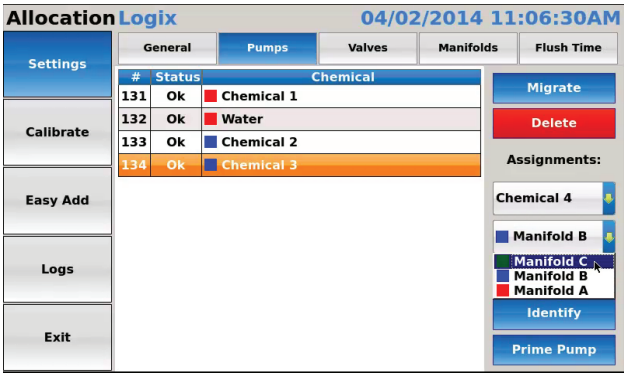
The unit will automatically call it "Manifold" with the letter after the existing manifolds (if two manifolds already exist, the new manifold will be named "Manifold C" etc).

Select the color to be displayed with this manifold. The color chosen does not affect the performance of the unit. It only acts as a reference guide.

Click "Yes" to finish adding the new manifold.

If another manifold is added, the "Pumps" and "Valves" tabs will show the new manifold in the drop-down menu.

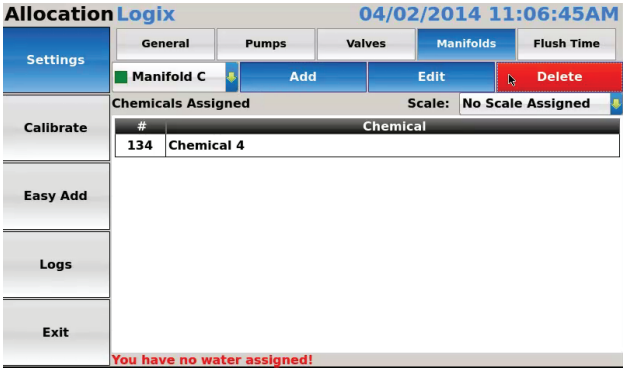
The new manifold will have no pumps, chemicals, or scales assigned to it.



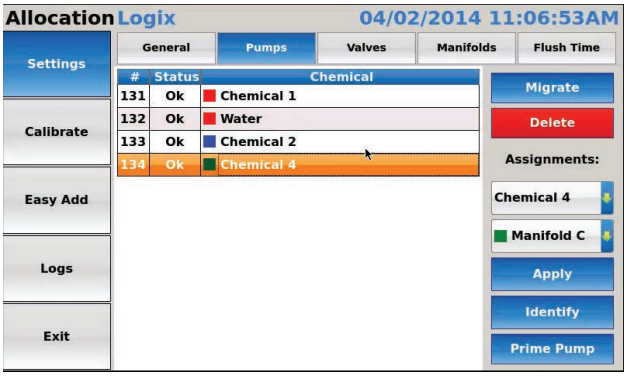
READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Deleting Manifolds

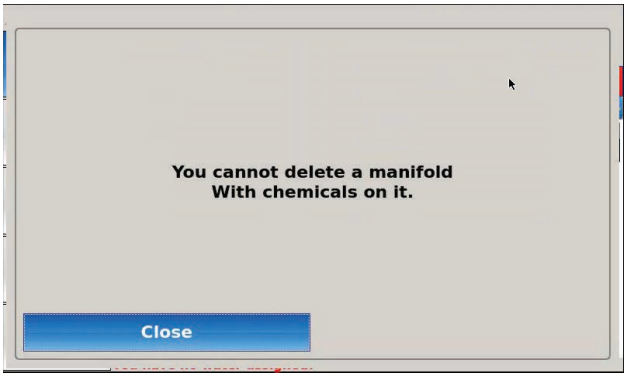
To remove the manifold from the software, go back to the Manifolds tab, select the manifold, and click “Delete.”



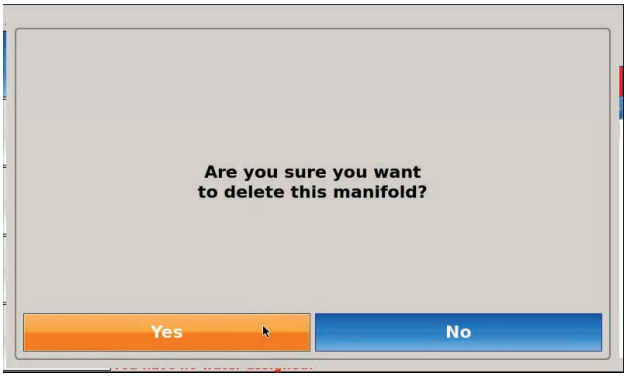
If the manifold has chemicals or destinations assigned to it, the pump controllers and destination valves must be moved to a different manifold in the software before the old manifold can be removed. Otherwise a screen will appear with a warning that a manifold with assigned chemicals can’t be deleted.



If no chemicals or destinations are setup on that manifold, a dialog box for confirmation will appear.



Click “Yes” to delete the manifold.



READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Priming Pumps

Before the unit can dispense chemical, each pump must be primed so the chemical fills up the hose to the manifold

Before the pumps can be primed, make sure that one pump controller is assigned to water for that manifold so a water flush can be performed between priming pumps. *See Page 14 for instructions on assigning water and chemical to pump controllers.*

Select the pump to be primed from the Pumps list, then click "Prime Pump."

This will bring up a dialog box where the user can prime the pump and bring chemical through the hoses.

Press START to turn the pump on. Once chemical is through the entire hose and is dispensing through the manifold into the 10 gallon tank, press STOP to turn the pump off.

Click "Close" when priming has been completed.

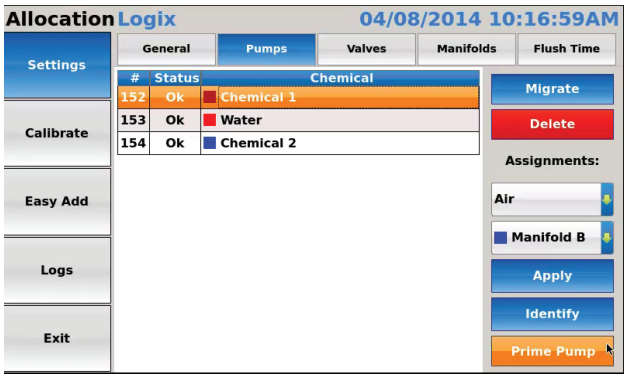
Once the pump has been primed and chemical is in the 10 gallon tank, the chemical must be removed via the ball valve on the bottom of the tank before more pumps can be primed.

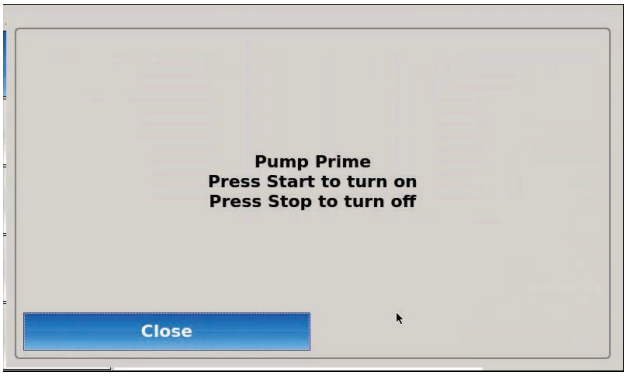
Point the discharge hose on the bottom of the tank into a jug or drain, then open the ball valve on the bottom of the 10 gallon tank.

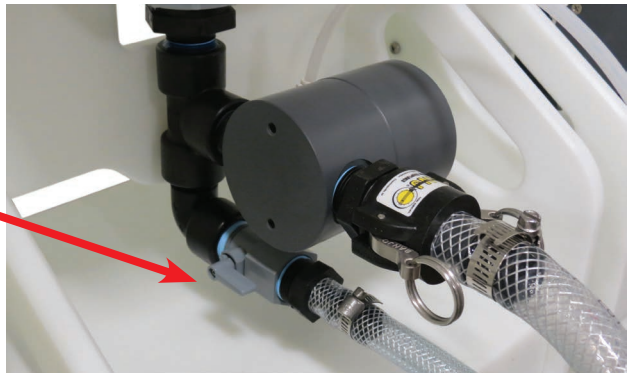
Once all of the chemical has been removed from the tank, select the pump controller assigned to "Water" on that manifold, and prime it. This will rinse out the tank and flush the manifold so that another pump with chemical can be primed

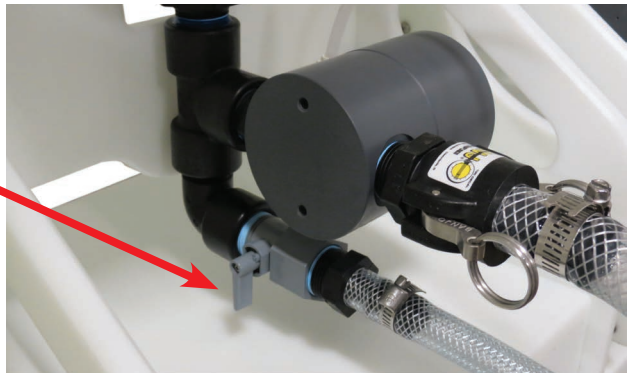
Once the tank has been rinsed and the manifold has been flushed, open the ball valve on the bottom of the tank again to remove the water. Close the ball valve when the tank is empty, and repeat this process for each pump.

Ensure that the ball valve is closed before dispensing!





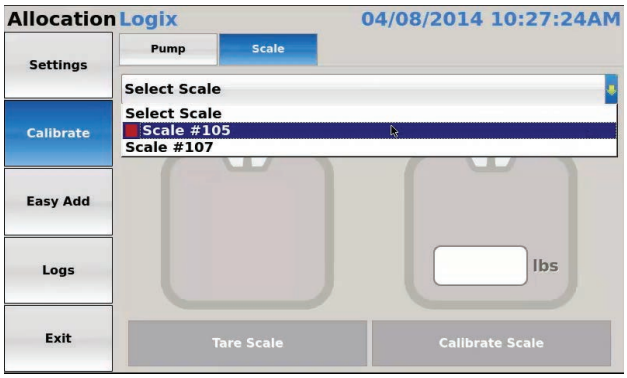




READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

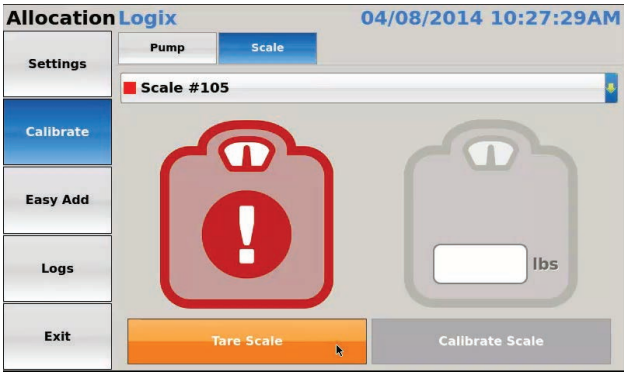
Calibrating the Scale

To calibrate the scales to ensure the best accuracy when dispensing, first log into the Admin screen by selecting the "Admin" button on the bottom right of the screen and typing in the 4-digit admin passcode.



Select "Calibrate" on the left side of the screen, then click "Scale" on the top of the screen.

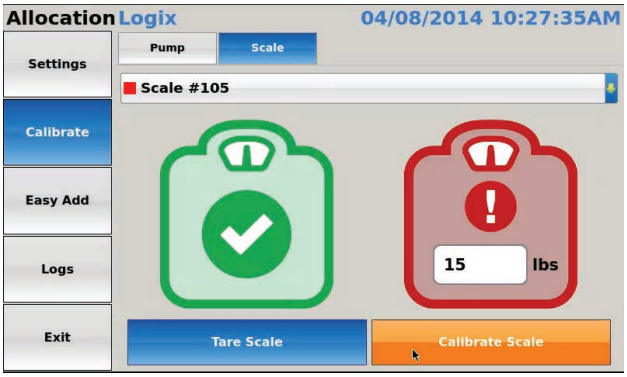
Select a scale from the drop-down menu.



If this is the first time calibrating the scale, both sides will appear red with an exclamation point.

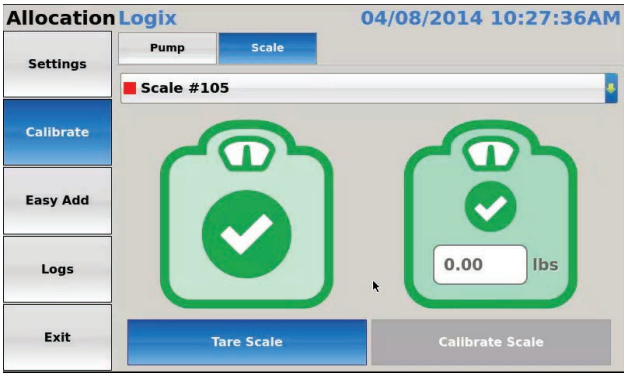
Make sure there is nothing on the 10 gallon tank mounted on the scale, and that the tank is empty, then click "Tare Scale."

Next, place a dumbbell, or a weight on top of the tank. The specific weight of this object *must be known* to ensure complete accuracy.



Using the numbers on the keypad, type in the weight of the dumbbell and click "Calibrate Scale."

Both sides will appear green with check marks, signaling that the scale is fully calibrated.



If the scale must be recalibrated, click "Tare Scale" and start over. This will wipe all previous calibration values and will require the user to recalibrate the scale before dispensing again.

Clean Logix recommends recalibrating the scale every 2-3 months to ensure the best accuracy.

READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Pump Calibration

NOTE: Since the ALX-RDS includes two 10-gallon tanks that are mounted on top of the scales, it will not need to dispense applications via time-based dispensing, meaning that pump controllers shouldn't ever need to be time calibrated. Pump calibrations are for the ALX-600 system, which can dispense to foamers or bulk tanks that cannot be measured by weight when dispensing.

Disregard the following instructions as pump controllers on an ALX-RDS system will not need to be calibrated for time-based dispenses.

To calibrate the pumps for time-based dispenses, log into the Admin screen by selecting the "Admin" button on the bottom right of the screen and typing in the 4-digit admin passcode.

Select "Calibrate" on the left side of the screen, then click "Pump" on the top of the screen.

Select a pump from the drop-down menu. Only pumps that have been assigned a chemical will appear in this list.

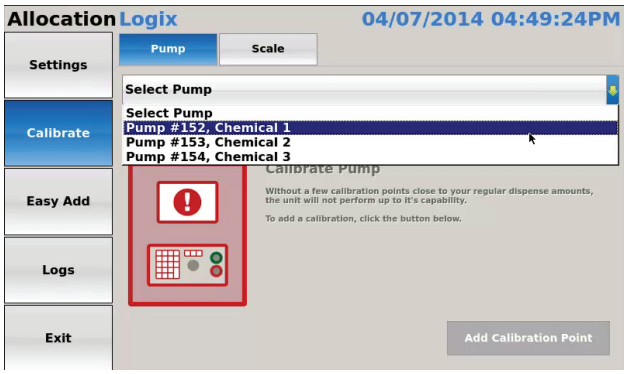
The unit needs to know how much chemical it pumps out for a set amount of time, so to calibrate it for timed dispenses, it must have calibration points setup close to the regular amounts of chemical that will be dispensed.

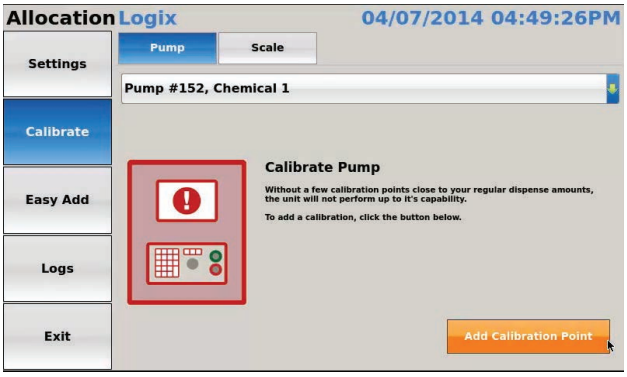
The unit's text will read:
"Calibrate Pump - Without a few calibration points close to your regular dispense amounts, the unit will not perform up to its capability.
To add a calibration, click the button below."

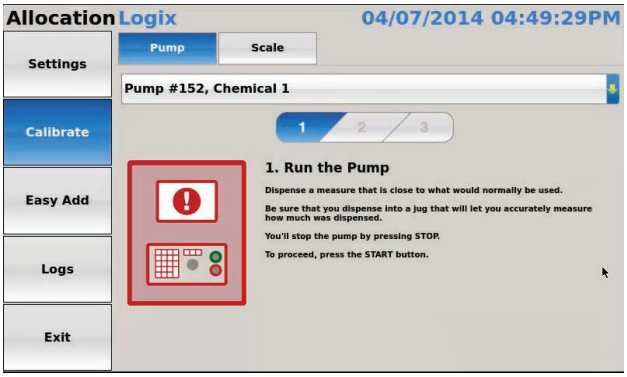
Click "Add Calibration Point."

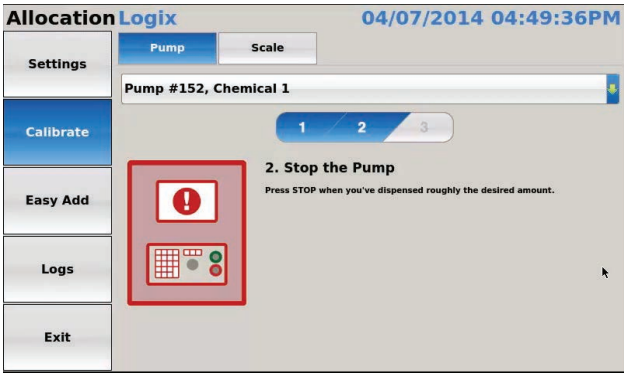
The onscreen instructions will read:
"Run the Pump - Dispense a measure that is close to what would normally be used.
Be sure that you dispense into a jug that will let you accurately measure how much was dispensed.
You'll stop the pump by pressing STOP.
To proceed, press the START button."

Press START and dispense an amount close to what will be normally dispensed (e.g. if users will be dispensing one gallon of chemical, dispense one gallon of chemical for a calibration point).







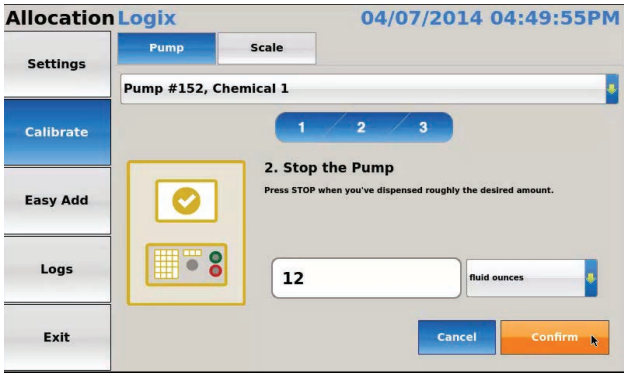


READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Pump Calibration (Continued)

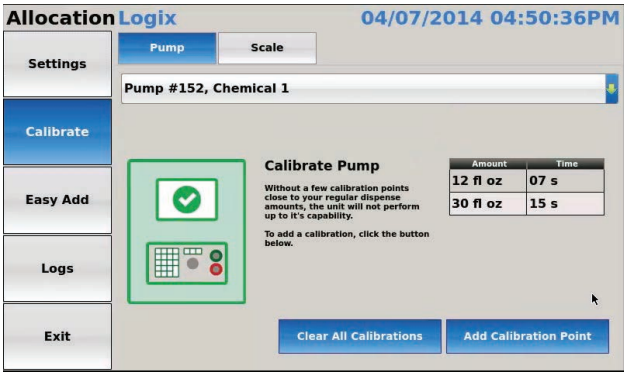
Press STOP when the desired amount of chemical is reached.

Enter the amount of chemical that was dispensed and select the correct value from the drop-down menu (fluid ounces, mililiters, liters, or gallons).



Click “Confirm” to save the calibration value.

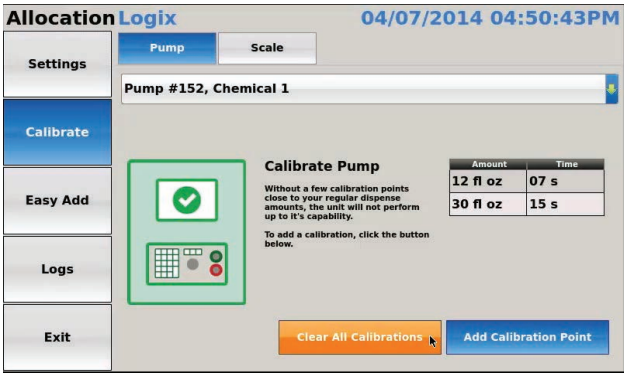
The saved calibration values will appear in a table on the right hand side of the screen. Clean Logix recommends having 2 calibration points per pump.



Repeat this process with all of the pump controllers that will be dispensing chemical via time. Once they are all calibrated, the unit can dispense time-based applications.

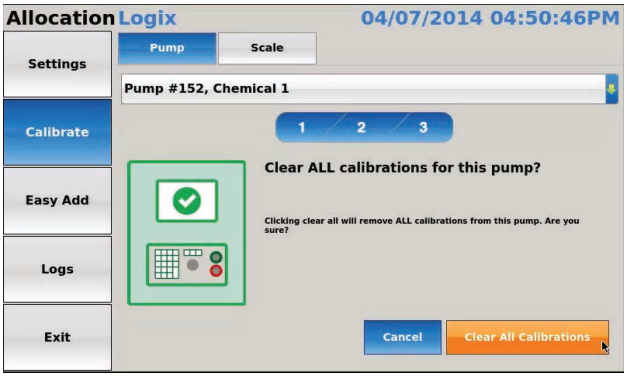
Clearing Calibrations

To clear calibration points on pumps, select the pump from the drop-down menu and click “Clear all Calibrations.”



The unit will bring up a confirmation message. Click “Clear all Calibrations” again to erase all the timed calibration points on this pump.

Clearing calibrations should be a rare occurance, but may be required when changes in the plant environment (e.g. change in air pressure, water pressure, length of hose, type of pump, etc) affect the speed at which chemical is dispensed.



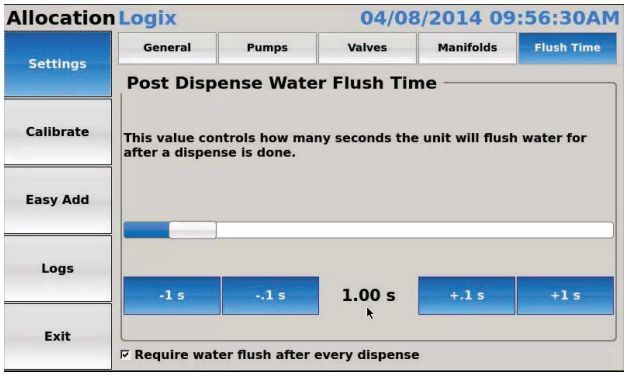
READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Post-Dispense Water Flush

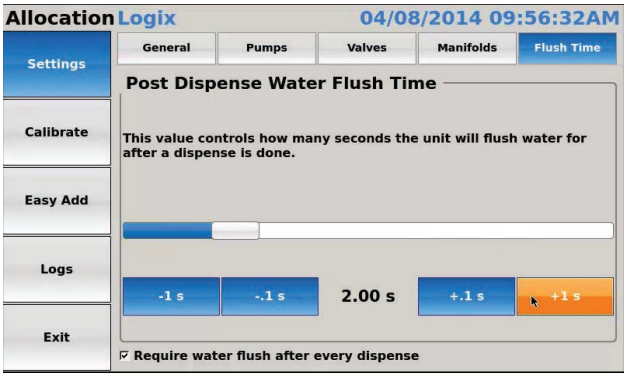
NOTE: Since the water rinsing steps on the ALX-RDS are setup on cleanintel.com, the Post Dispense Water Flush settings will not need to be used.

Make sure that the checkbox requiring a water flush after every dispense is not selected, and that the number of seconds to flush is set to "Zero."

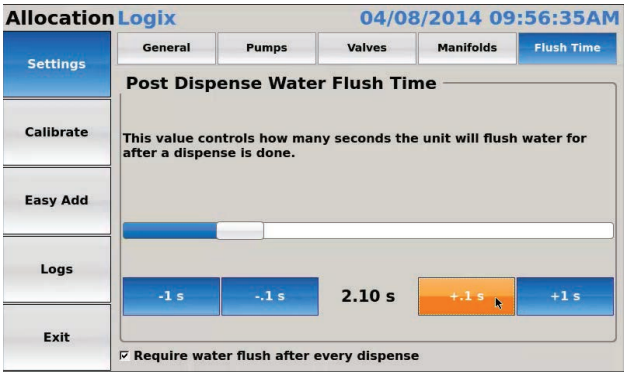
Disregard the following instructions, as they are for the ALX-600 system.



To change the length of time that water flushes after the dispense, go to the "Flush Time" tab under "Settings."

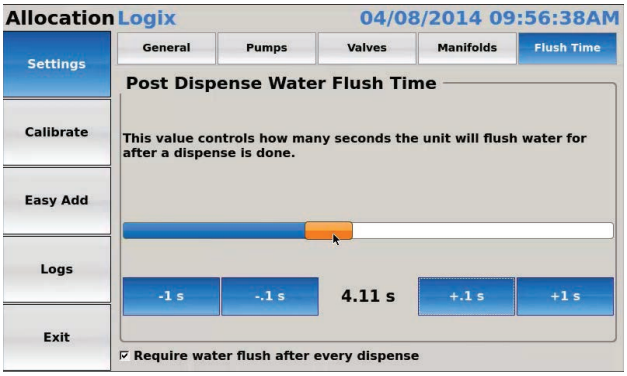


Use the buttons to increase or decrease the time by 1.0 seconds or 0.1 seconds.



The scroll bar can also be manually moved by clicking it.

The maximum time that water will flush after a dispense is 10 seconds.



Click the checkbox on the bottom to require a water flush after every dispense. If this is not checked, users can skip the post-dispense water flush by pressing STOP.

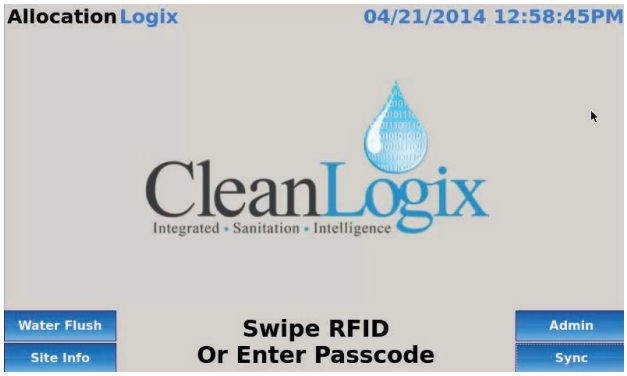
Click "Exit" to save settings and return to the home screen.

READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Operation Instructions

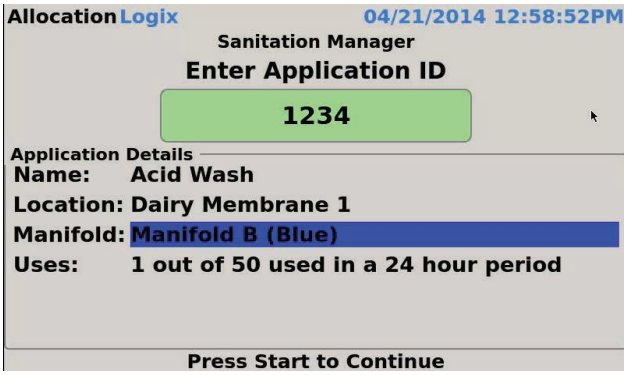
Dispensing

To begin dispensing, the user can either swipe their RFID card or type in their 4-digit passcode to login.



Correct passcodes will bring the user to the next screen while incorrect codes will appear in red.

Select an application to dispense by typing in its 4-digit code.



Once the application has been selected, the unit shows the name, location, manifold, and allowed uses of the application.

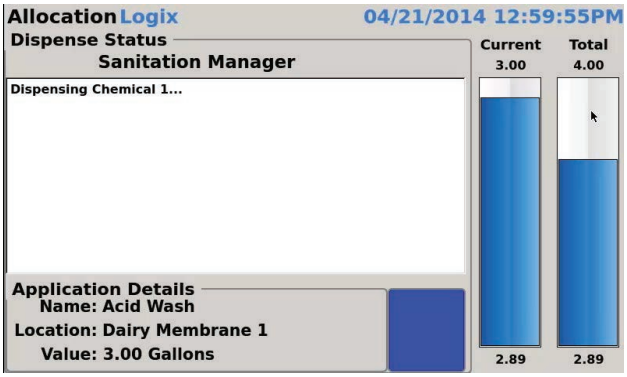
NOTE: If any errors appear on this screen, refer to the Validation Errors troubleshooting guide. (See Page 34).

Press START to confirm the application and continue.

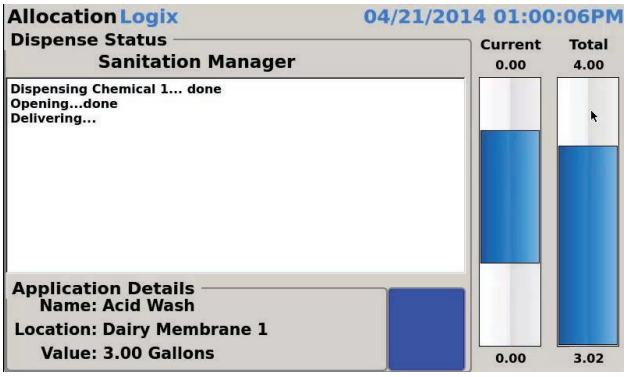
READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Dispensing (Continued)

NOTE: *Under no circumstances interfere with the scale during a dispense. This includes touching the tank or frame, lifting up on the tank during a dispense, leaning or placing any additional weight on the scale, etc. This will cause incorrect readings and reporting on chemical consumption.*

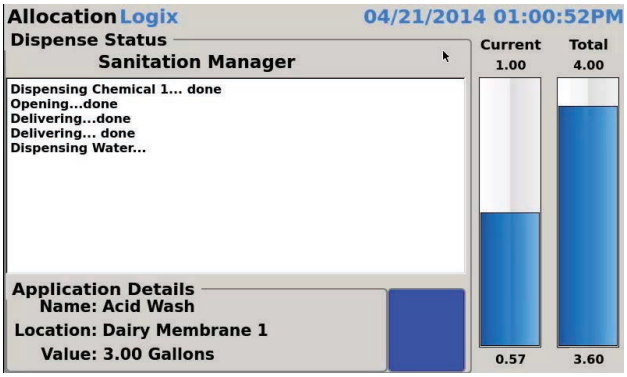


Press START to begin the dispense.

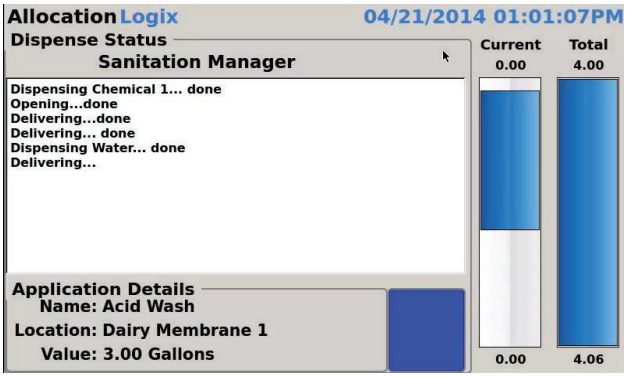


Example: This application is dispensing 3 gallons of "Chemical 1," with a 1 gallon water rinse. The total amount of the application is "4 gallons" which is shown above the right bar.

The first step in the application is to measure out 3 gallons of "Chemical 1" by dispensing it into the 10 gallon tank. The bar on the left of the screen shows the current volume in gallons for the step of the application being dispensed. The bar on the right shows the total volume of the application, which includes both the chemical and the water rinse.



The second step begins and pumps "Chemical 1" out of the 10 gallon tank via the delivery pump and sends it to the "Dairy Membrane 1" destination through the destination valve that is assigned to "Dairy Membrane 1." *(See Page 17 for instructions on assigning/changing destinations).*



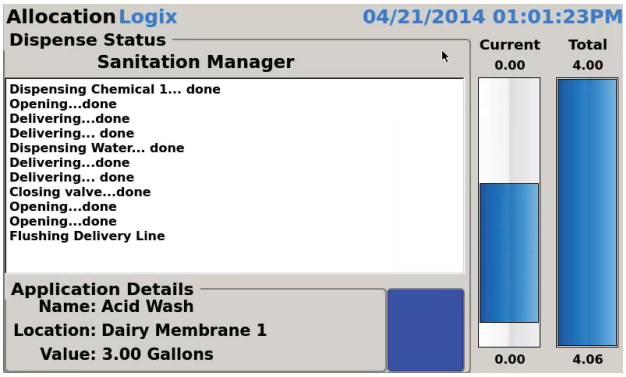
The delivery pump will stop when the scale reaches "zero" weight. After a short pause, the pump will run again for a few seconds to ensure the tank is completely empty.

The unit then dispenses 1 gallon of water to rinse out the tank. Once the tank is rinsed, the delivery pump sends the water out through the pump and chemical lines, and into the membrane system, emptying the tank.

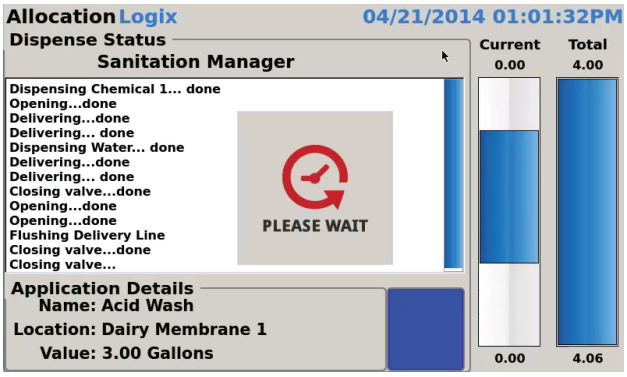
READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Dispensing (Continued)

After the tank is empty, a post-dispense water flush is sent through the pump and delivery lines, via the valve assigned to “Flush,” to the membrane to ensure the pump and lines are completely free of chemical before the next dispense.

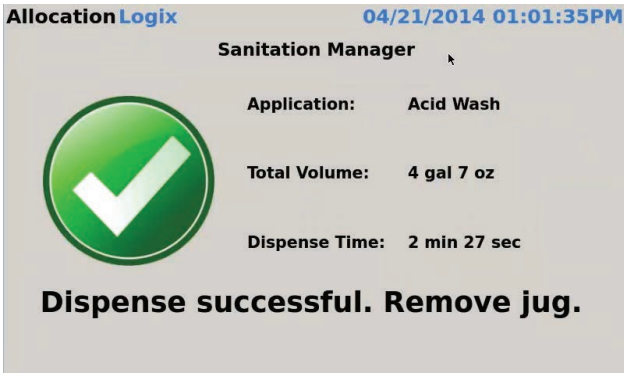


At the end of the cycle, a dialog box saying “Please Wait” will appear for a few seconds.

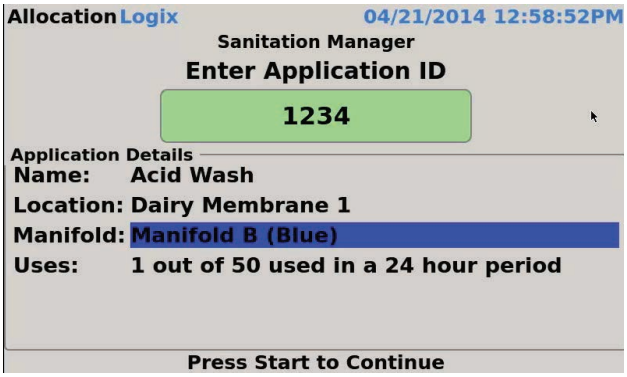


A post-dispense screen will appear with the name of the application, the total volume that was actually dispensed, and the dispense time of how long it took to complete.

NOTE: Ignore the “Remove Jug” message on the unit. This message applies to the ALX-600, which requires users to place jugs on the scale for dispensing, then remove them when the dispense is complete. Since the ALX-RDS includes two 10-gallon tanks that are mounted on top of the scales, and sends chemical out to remote destinations, no jugs will have to be added or removed for a dispense.



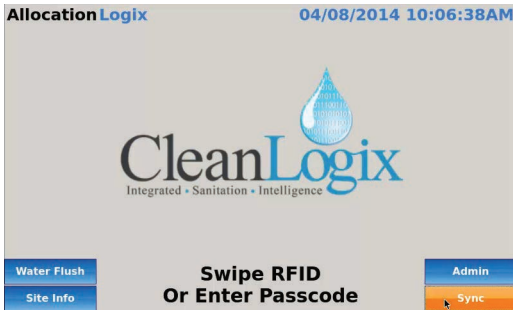
If another dispense is required, press START to return to the application selection screen. If dispensing is done, press STOP to return to the home screen.



READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Syncing

To sync information to and from cleanintel.com, press the “Sync” button in the bottom right corner of the home screen.



This will automatically initiate a data transfer from the unit to the website and back again through the cellular router.

The unit will sync up all the data logs of dispenses including which users have logged in, how much chemical has been dispensed, which applications have been used, and the times and durations for all dispenses.

If a manager has created a new user, updated the list of chemicals or applications, or added new user permissions on cleanintel.com, the syncing process will update the unit with this new data.

The unit is configured to sync to cleanintel.com hourly, so a user will rarely need to manually sync.

If the syncing fails, ensure the unit has internet connection by checking the router for 3 green lights on the right (meaning full signal) and that all connections are securely in place. If a yellow light is on, it shows that the router has poor signal. A red light means no service.

READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Manual Water Flush

To rinse the 10 gallon tanks with water via the spinner ball valve, select “Water Flush” from the home screen.

The screen will say “Press Key That Corresponds to Manifold for Flush.”

Press “1” on the keypad to select the Red manifold.

Press “2” on the keypad to select the Blue manifold.

If there are more than 2 manifolds setup on the unit, press the corresponding numbers to select the correct manifold (e.g. pressing “3” would select the next manfold, etc).

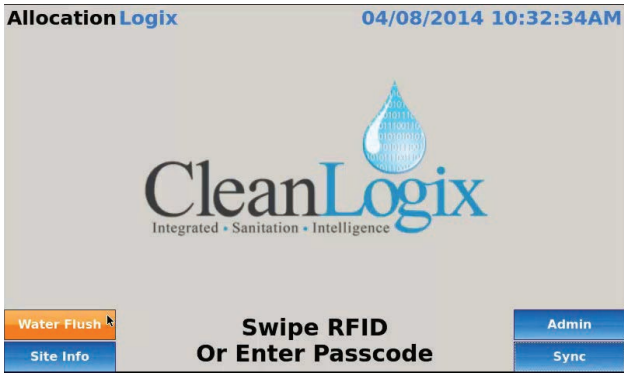
Once the manifold has been selected, press “START” on the keypad to manually rinse with water.

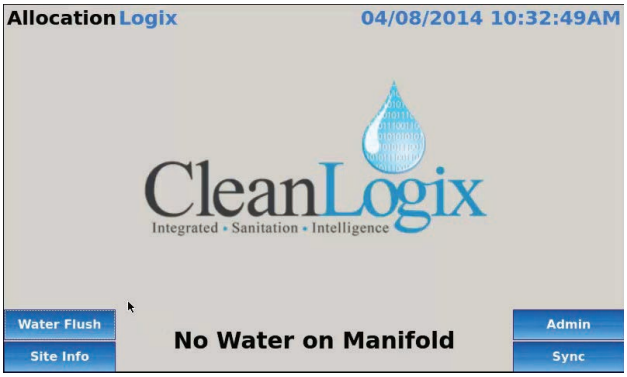
The water will continue to dispense until “STOP” is pressed.

Once “STOP” is pressed, the unit will return to the home screen.

If water is not assigned to a manifold, an error message will appear. *See Page 14 for instructions on assigning water and chemicals to pumps and manifolds.*

NOTE: Once the manual water flush is complete, empty the tank and drain the water out via the discharge hose and ball valve on the bottom of the tank before dispensing chemical again. See Page 40 for instructions.





READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Maintenance Instructions

Scale Maintenance

WARNING

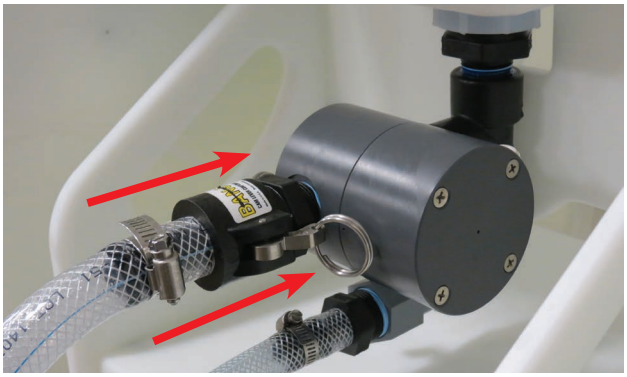
Avoid Personal Injury

1. Avoid contact of cleaning agent with skin and eyes. If contact occurs, see MSDS sheet for further first aid measures.
2. Follow safety instructions of chemical manufacturer (MSDS).
3. Always follow plant and OSHA guidelines about the use of hygiene equipment.
4. Disconnect power before servicing unit.

Sometimes debris or foreign objects can get underneath the scales and cause incorrect readings or dispense errors. Use the following instructions to perform maintenance on the scales.

To access the scales underneath the 10 gallon tanks, the tanks must be disconnected from the air and water lines.

Remove the 1/4” airline leading into the valve.

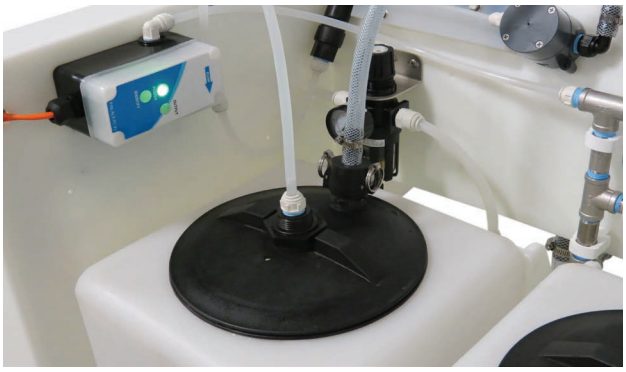


Release the clamps on the cam coupler so the 3/4” hose can be removed from the plast-o-matic valve.

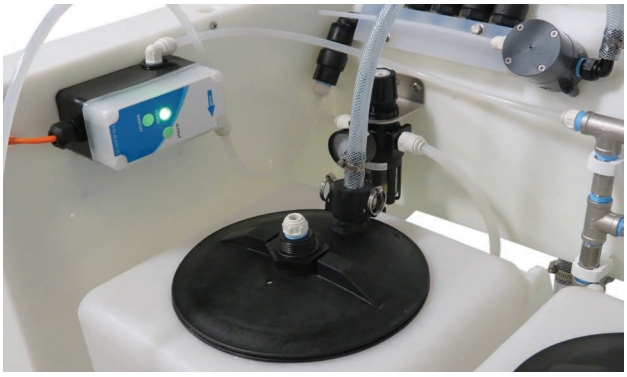
READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Scale Maintenance (Continued)

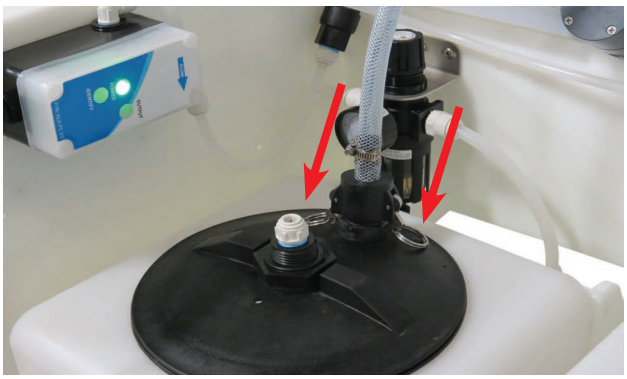
Disconnect the 3/8” water line that feeds into the top of the tank.

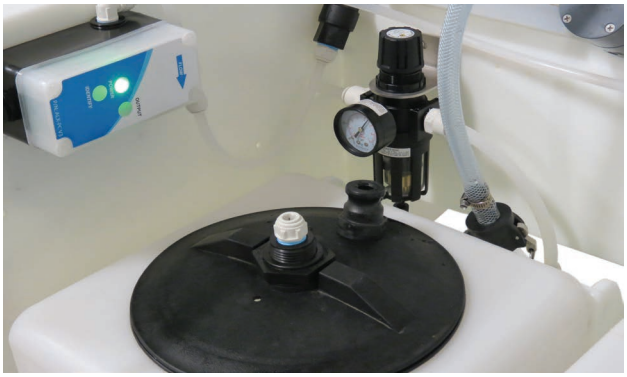


Release the clamps on the cam coupler so the 1/2” hose can be removed.



The tanks can now be lifted up and removed to provide access to the scale assemblies below. Remove any debris on or around the scale to ensure accurate dispenses.

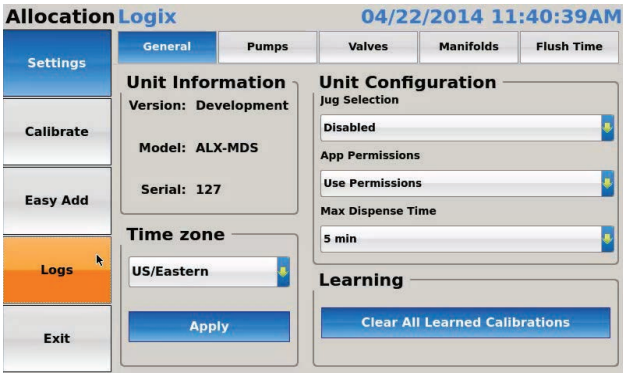




READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Standard & Event Logs

The data logs on the ALX-RDS can be used to see what has been happening on the unit.



To access the data logs, log into the Admin screen by selecting the “Admin” button on the bottom right of the screen and typing in the 4-digit admin passcode.

Select “Logs” from the left side of the screen.

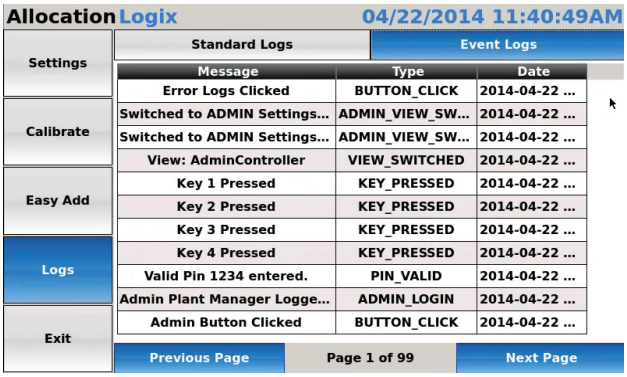
AllocationLogix
04/22/2014 11:40:42AM
Settings
Calibrate
Easy Add
Logs
Exit
Standard Logs
Event Logs
Date App Code User Amount
04-21 13:29 Acid Wash 1234 Sanitation Mana...
04-21 12:58 Acid Wash 1234 Sanitation Mana...
04-21 11:18 Acid Wash 1234 Sanitation Mana...
04-16 09:05 Acid Wash 1234 Sanitation Mana...
04-15 11:04 Acid Wash 1234 Sanitation Mana...
04-14 19:02 Acid Wash 1234 Sanitation Mana...
04-11 14:00 Acid Wash 1234 Sanitation Mana...
04-11 13:56 Acid Wash 1234 Sanitation Mana...
04-11 11:35 Acid Wash 1234 Sanitation Mana...
04-11 10:54 Acid Wash 1234 Sanitation Mana...
Previous Page
Page 1 of 1
Next Page

The Standard Logs show which applications were dispensed when, by which user.

If there is more than one page of logs, navigate through the pages by clicking “Next Page” or “Previous Page.”

AllocationLogix
04/22/2014 11:40:43AM
Settings
Calibrate
Easy Add
Logs
Exit
Standard Logs
Event Logs
Date App Code User Amount
04-21 13:29 Acid Wash 1234 Sanitation Mana...
04-21 12:58 Acid Wash 1234 Sanitation Mana...
04-21 11:18 Acid Wash 1234 Sanitation Mana...
04-16 09:05 Acid Wash 1234 Sanitation Mana...
04-15 11:04 Acid Wash 1234 Sanitation Mana...
04-14 19:02 Acid Wash 1234 Sanitation Mana...
04-11 14:00 Acid Wash 1234 Sanitation Mana...
04-11 13:56 Acid Wash 1234 Sanitation Mana...
04-11 11:35 Acid Wash 1234 Sanitation Mana...
04-11 10:54 Acid Wash 1234 Sanitation Mana...
Previous Page
Page 1 of 1
Next Page

The Event Logs show each individual action that took place on the unit, including all button presses and pointer clicks.



READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

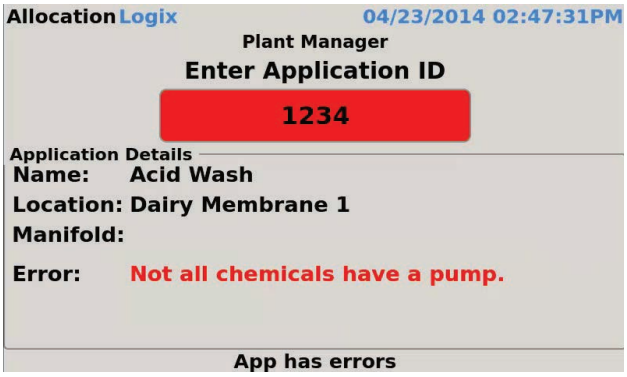
Troubleshooting

Validation Errors

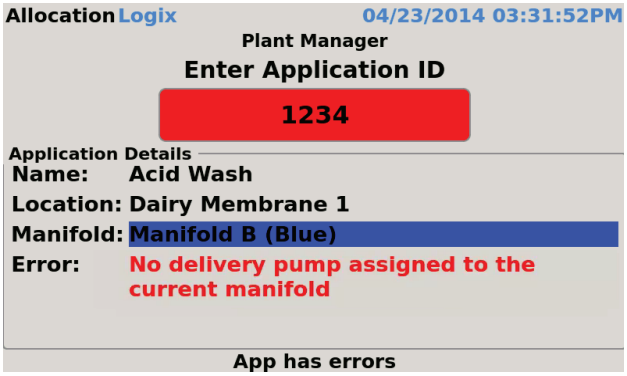
Use the following guides to help troubleshoot if errors appear on the unit.

Message	Invalid App Code
Cause	The code typed in does not reference any existing application setup on cleanintel.com.
Solution	Check the Site Info tab to see the existing applications setup on the unit, then type in a correct code to dispense an existing application.

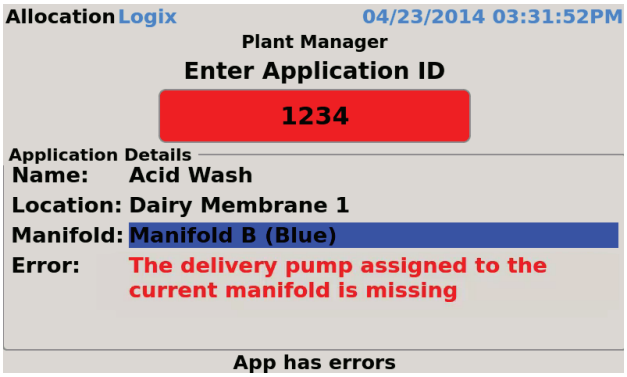
Message	Not all Chemicals Have a Pump
Cause	A chemical in the application is not assigned to a pump.
Solution	Ensure all pump controllers have power. On unit, go into the Admin screen, then under “Pumps” tab. Assign the chemical to a pump. (See Page 14).



Message	No Delivery Pump Assigned to the Current Manifold
Cause	No pump controller is assigned to the delivery pump.
Solution	Go to the admin screen, then under the “Pumps” tab ensure that a pump on each manifold is assigned to “Delivery.” (See Page 14).



Message	The Delivery Pump Assigned to the Current Manifold is Missing
Cause	The pump controller assigned to the Delivery Pump is disconnected.
Solution	Check for a green light on the pump controller, signaling power. Check all the CAN connections to the pump controllers.



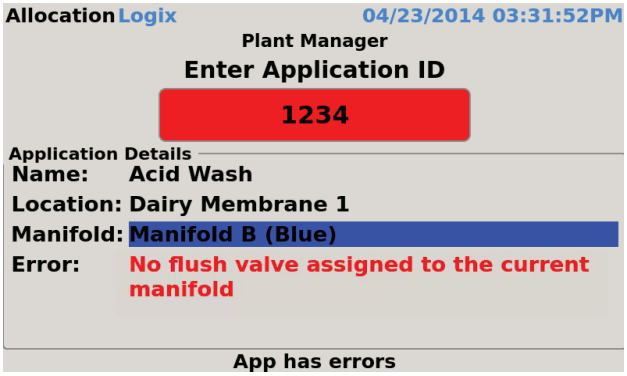
READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Troubleshooting (Continued)

Message	No Destination Valve Assigned to the Current Manifold
Cause	No valve is assigned to the destination of the application that is trying to be dispensed on that manifold.
Solution	Go to the admin screen, then under the “Valves” tab ensure that a valve is assigned to the correct destination on that manifold. (See Page 17).

Message	The Destination Valve Assigned to the Current Manifold is Missing
Cause	The valve controller assigned to the Destination in the application is disconnected.
Solution	Check for a green light on the pump controller, signaling power. Check all the CAN connections to the pump controllers.

Message	No Flush Valve Assigned to the Current Manifold
Cause	No valve is assigned to the Flush on that manifold.
Solution	Go to the admin screen, then under the “Valves” tab ensure that a valve is assigned to “Flush” on that manifold. (See Page 17).

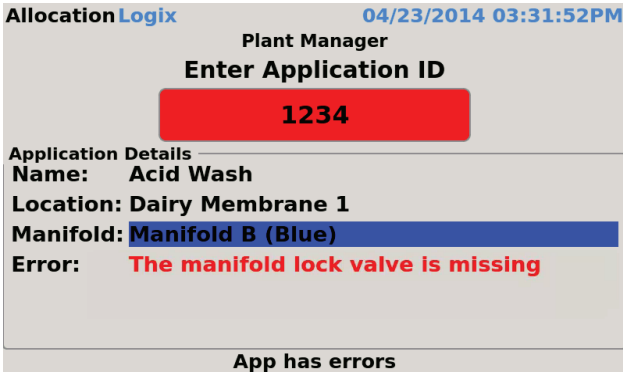


Message	The Flush Valve Assigned to the Current Manifold is Missing
Cause	The valve controller assigned to the Flush on that manifold is disconnected.
Solution	Check for a green light on the pump controller, signaling power. Check all the CAN connections to the valve controllers.

READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Troubleshooting (Continued)

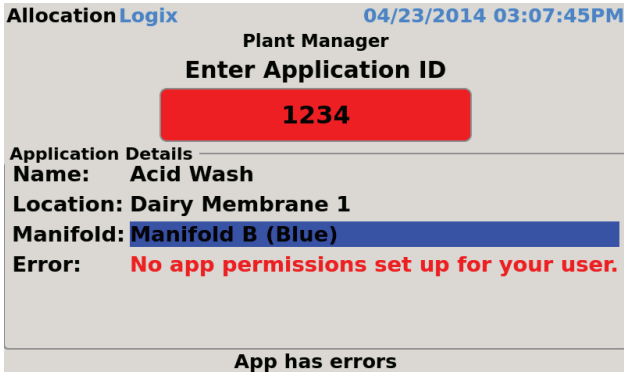
Message	The Manifold Lock Valve is Missing
Cause	No valve is assigned to manifold lock on the manifold of the application that is trying to be dispensed.
Solution	Go to the admin screen, then under the "Valves" tab ensure that a valve is assigned "Manifold Lock" on that manifold. (See Page 17).



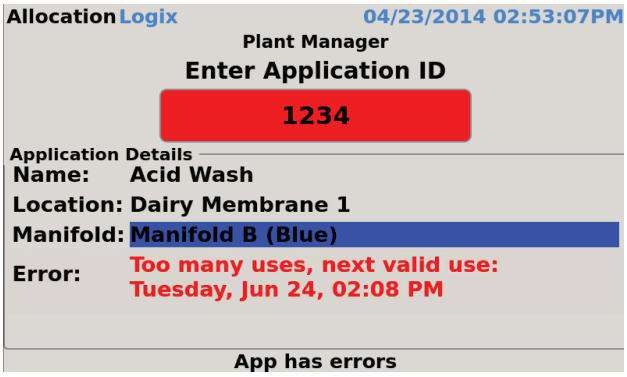
READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Troubleshooting (Continued)

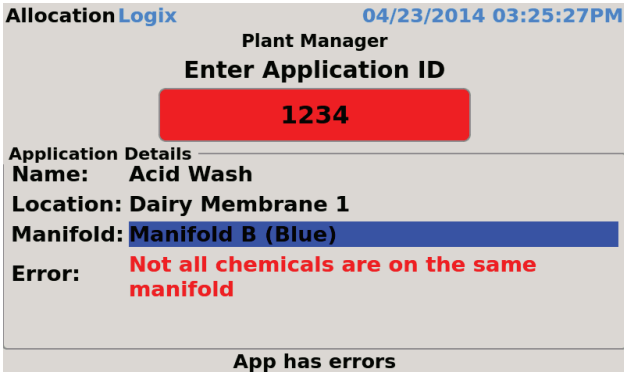
Message	No App Permissions Set Up
Cause	No permissions to dispense this application have been setup for this user on cleanintel.com.
Solution	On website, edit the user's permissions to be able to dispense that application, then sync the unit. **Alternative**: under General Settings select "Don't Use Permissions" (See Page 9).



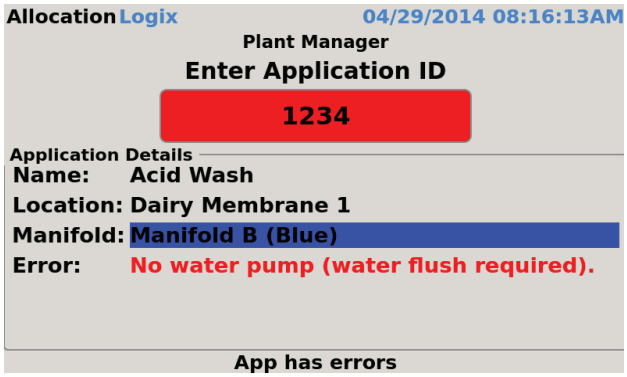
Message	Too Many Uses
Cause	The application has been dispensed by that particular user to their max permission level within a 24-hour period.
Solution	On website, edit the user's permissions to be able to dispense that application more times within a 24-hour period, then sync the unit. **Alternative**: under General Settings select "Don't Use Permissions" (See Page 9).



Message	Not All Chemicals on Same Manifold
Cause	The application trying to dispense has multiple chemicals, but not all are assigned to the same manifold.
Solution	On unit, go into the Admin screen, then under "Pumps" tab. Assign the chemicals in the application to the same manifold. (See Page 14).



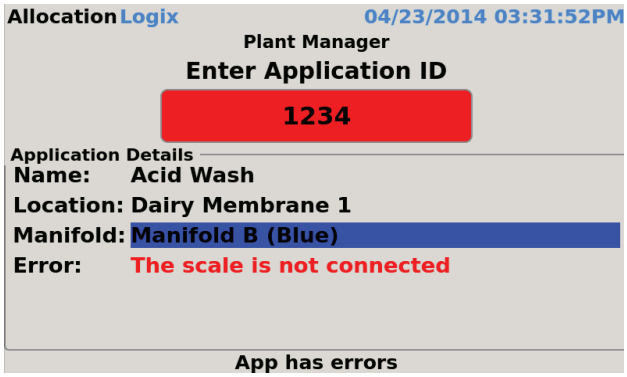
Message	No Water Pump (Water Flush Required)
Cause	Water is not assigned to the manifold that has an application that is trying to dispense, but a post-dispense water flush is required.
Solution	On unit, go into the Admin screen, then under "Pumps" tab and assign water to the correct manifold, or go under the "Flush Time" tab and *deselect* "Require a flush after each dispense." (See Page 25).



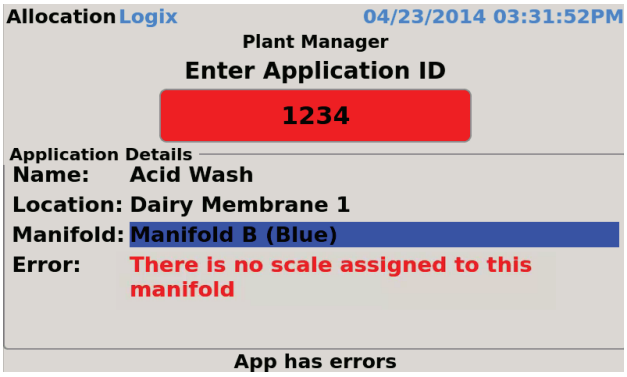
READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Troubleshooting (Continued)

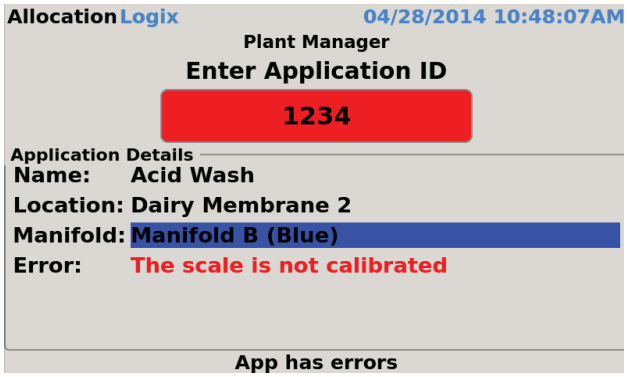
Message	No Scale Assigned to this Manifold
Cause	The scale has not been assigned to a specific manifold in the admin screen.
Solution	If the loadcell has a red light, signaling power, go into the Admin screen and assign the scale to a manifold under the "Manifolds" tab. (See Page 19).



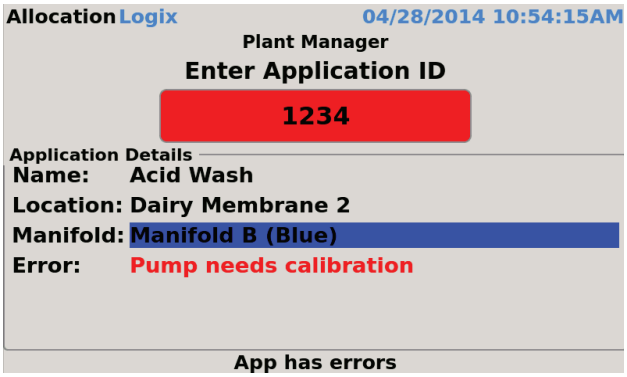
Message	The Scale is not Connected
Cause	The scale conditioner is not connected to the CAN network.
Solution	Check for a red light on the scale conditioner signaling power, then check the connection from the scale conditioner to the scale.



Message	Scale is not Calibrated
Cause	The scale has not been calibrated.
Solution	On unit, go into the Admin screen, then under "Calibrate" tab. Tare the scale, then follow on-screen instructions to calibrate. (See Page 22).



Message	Pump Needs Calibration
Cause	The application trying to dispense is time-based and needs the pump to be time-calibrated, but the pump is not.
Solution	On unit, go into the Admin screen, then under "Calibrate" tab. Select which pump to calibrate. (See Page 23).



READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Dispense Errors

NOTE: Ignore the "Remove Jug" message on the unit. This message applies to the ALX-600, which requires users to place jugs on the scale for dispensing, then remove them when the dispense is complete. Since the ALX-RDS includes two 10-gallon tanks that are mounted on top of the scales, and sends chemical out to remote destinations, no jugs will have to be added or removed for a dispense.

Message	Dispense Cancelled
Cause	User pressed "STOP" before the dispense finished.
Solution	During a dispense, *do not press any buttons until the screen shows a green check mark* signaling the end of the dispense. If this error appears, press "STOP" to return to the home screen.

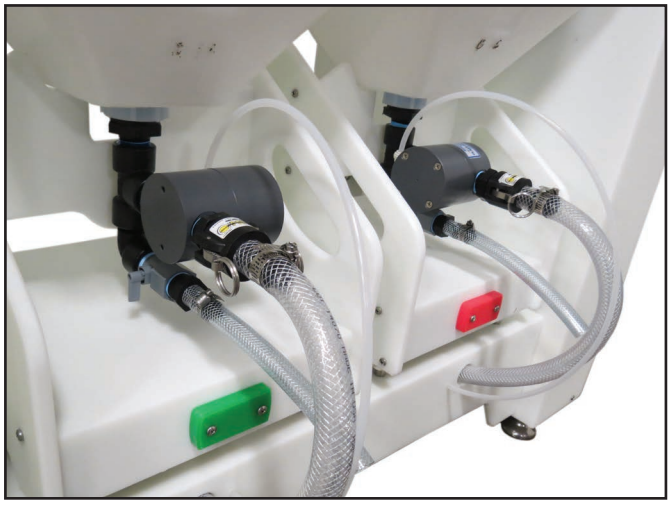
Message	Jug Lifted Prematurely
Cause	User interfered with the tank before the dispense finished - causing incorrect scale readings.
Solution	Make sure the tank and scale are not touched during the dispense until the screen shows a green check mark.

Message	Scale Never Settled
Cause	Vibration caused the scale to be unable to settle/tare itself before the dispense.
Solution	Remove anything that may physically interfere with the scale. (See Page 31).

Message	Pump Activated, but no Chemical Arrived
Cause	No chemical arrived during the dispense.
Solution	Check that pump is primed and has an air supply to it to turn it on. (See Page 21 for priming pumps).

READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Troubleshooting (Continued)



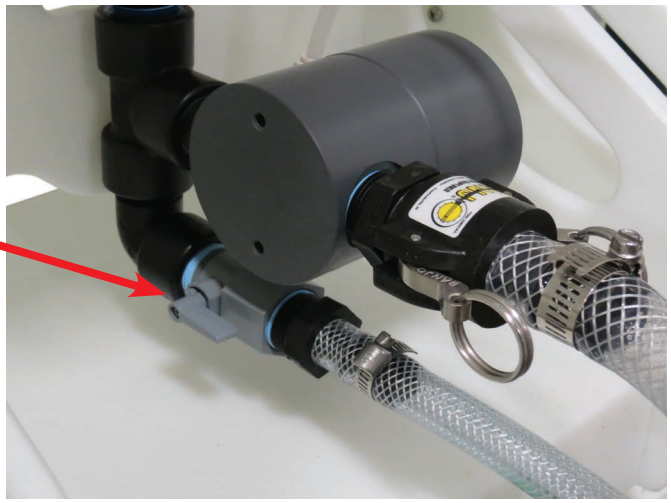
Chemical Stuck in Tank

Use the following instructions if chemical becomes trapped in the 10 gallon tank for any of the following reasons:

- A user cancelled the dispense before chemical was sent out of the 10-gallon tank to the destination.
- A pump was being primed.

The tank can be emptied by manually opening the ball valve on the bottom of the 10 gallon tank.

To manually empty the tank, first ensure that there is a container in place underneath the tank to catch the chemical when it comes out.

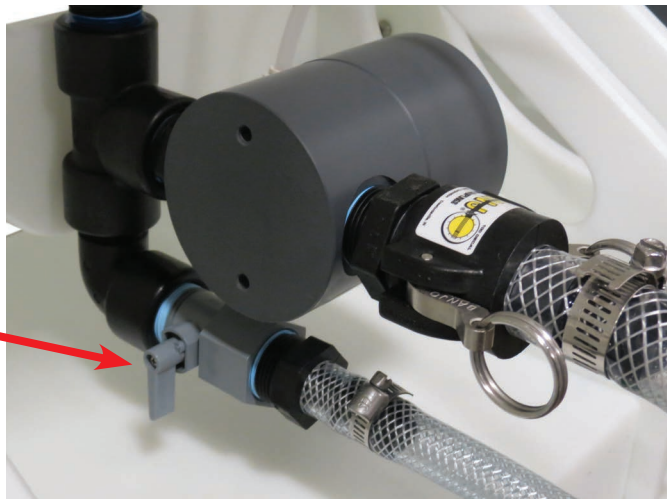


Ensure the discharge hose from the tank is pointed into the container, then open the ball valve by turning the lever. *Once this is opened, chemical will begin to flow out.*

Once all of the chemical is removed from the tank, close the air valve.

Prime the pump for water on that manifold to rinse the tank and flush the manifold. *See Page 21 for instructions on priming the pump for water.*

After the tank has been rinsed and the manifold has been flushed, open the ball valve on the bottom of the 10 gallon tank again to remove the water from the tank and send it out the discharge line.

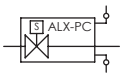


Close the ball valve when completed.

Ensure that the ball valve is closed before dispensing, otherwise chemical will leak out of the tank when a dispense is run!

READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

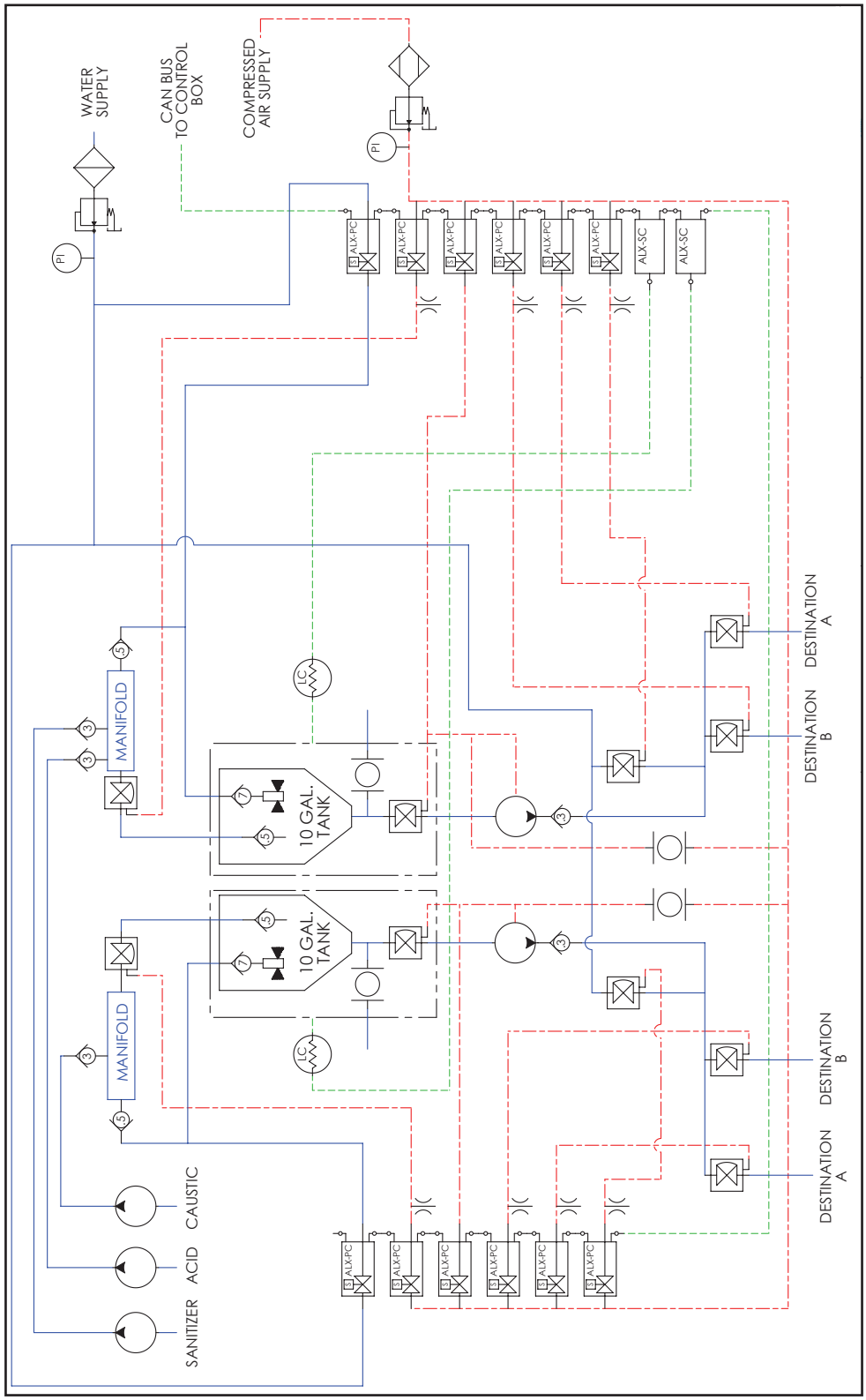
Diagrams Piping and Instrumentation

SYMBOL LEGEND	
PRESSURE INDICATOR	
PUMP	
CHECK VALVE (PSI)	
BALL VALVE, MANUAL	
DIAPHRAGM VALVE, AIR OPERATED	
BLEED FITTING	
PRESSURE REGULATOR	
FILTER	
AIR DRYER	
LOAD CELL	
ALX-PC CONTROLLER	
ALX-SC LOAD CELL CONDITIONER	
TANK RINSE NOZZLE	

LINE STYLES	
PLUMBING	
COMPRESSED AIR	
ELECTRICAL	
ENVELOPE	

READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Piping and Instrumentation Diagram



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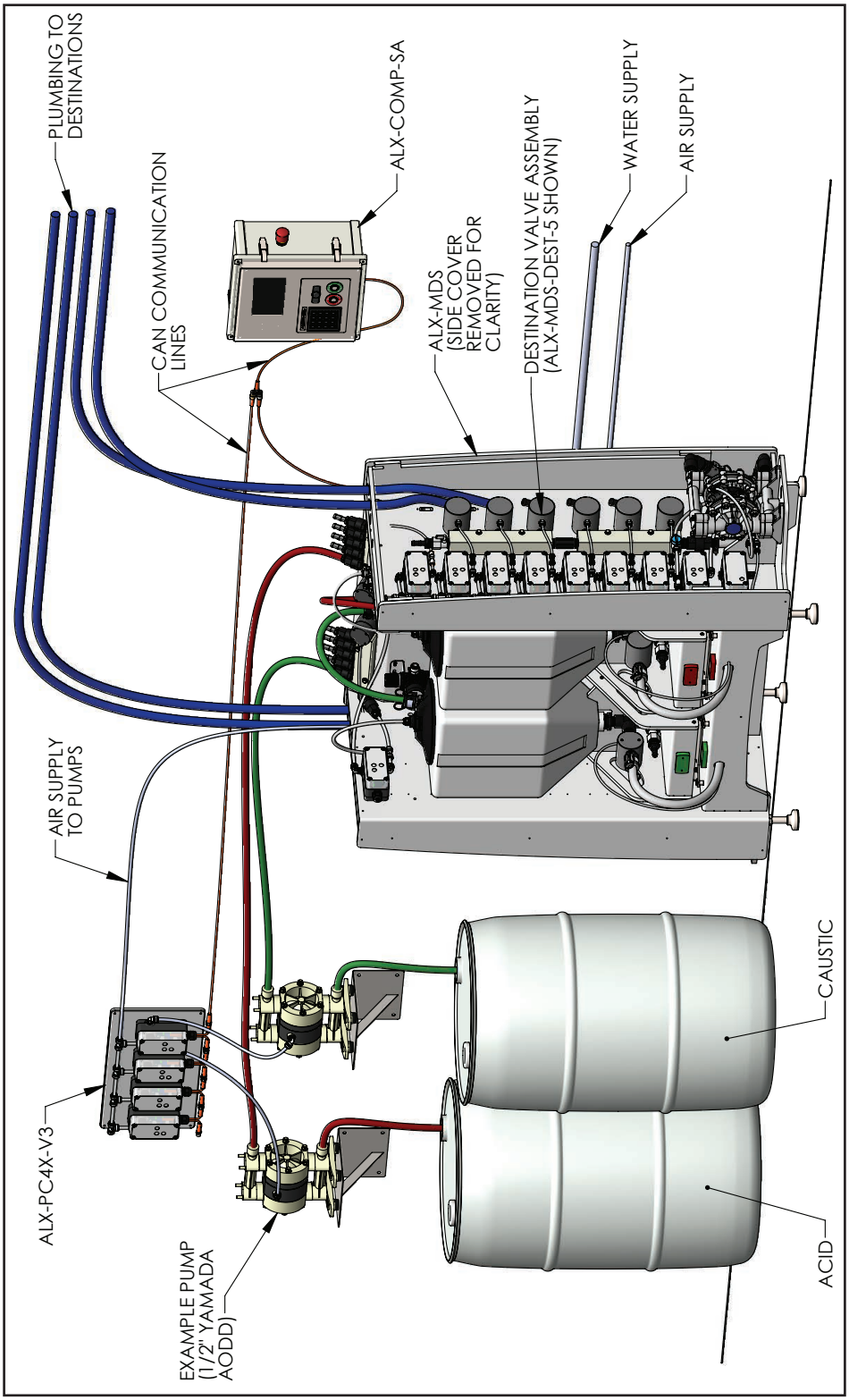
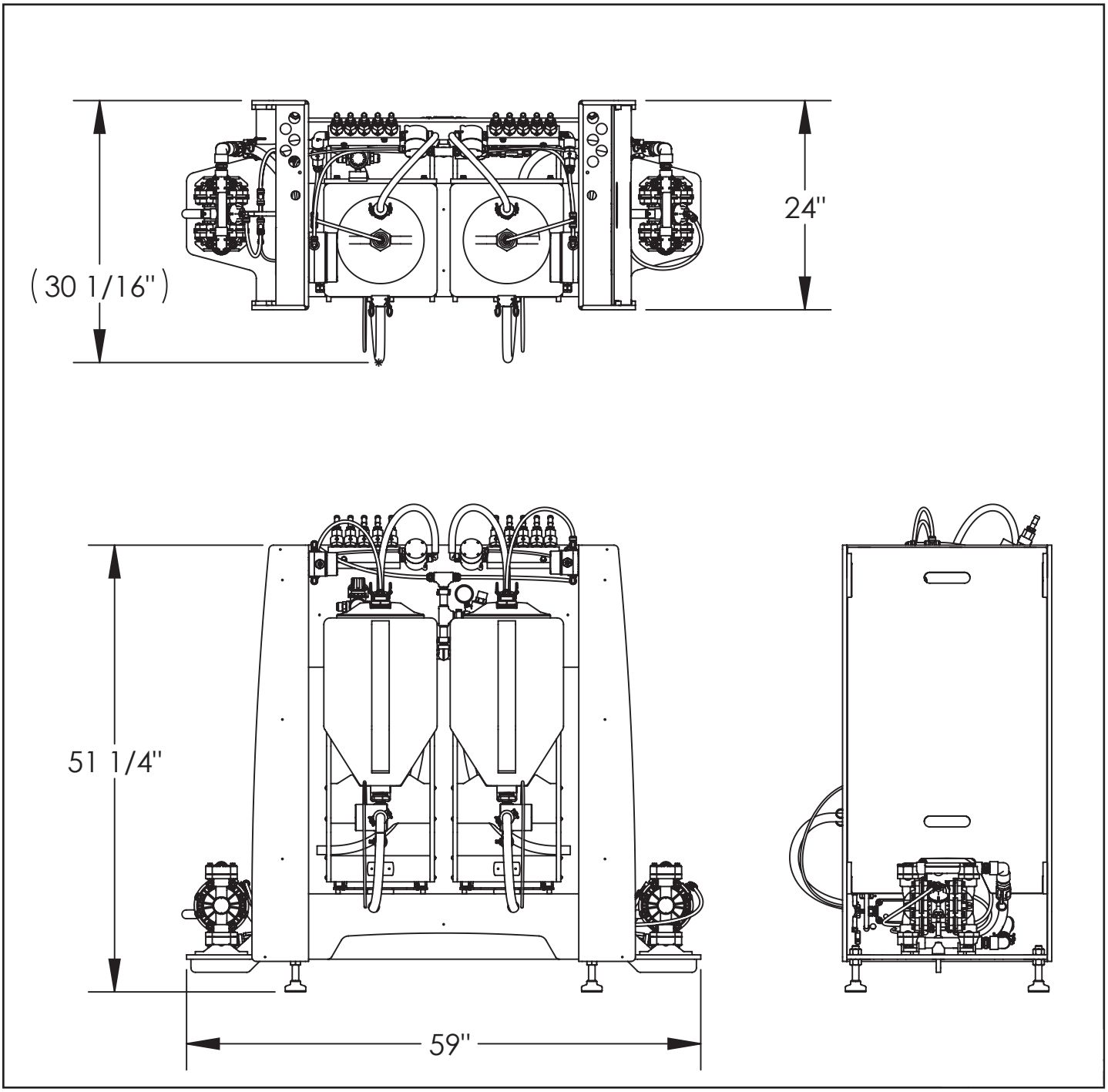
Example System Layout



READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

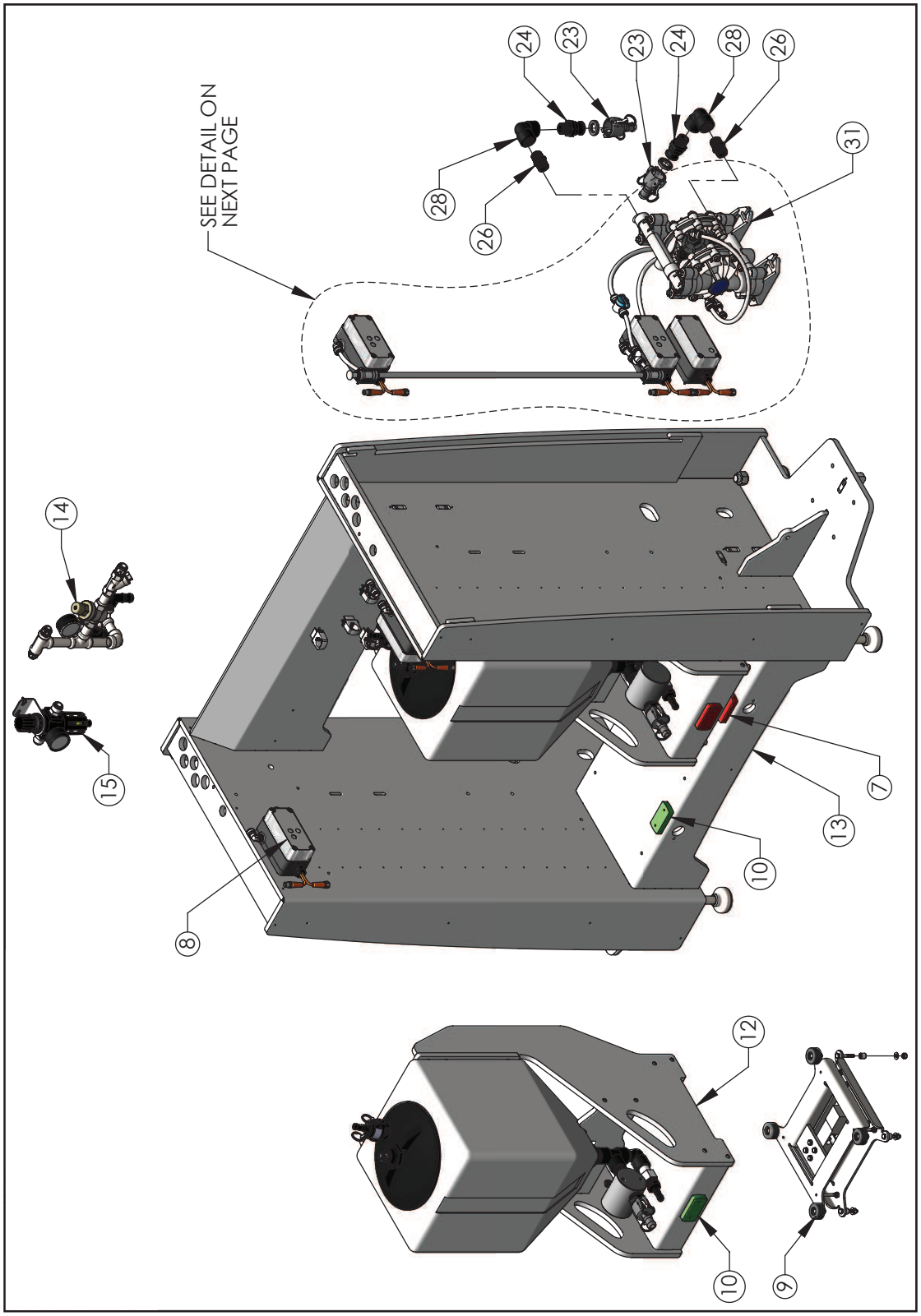
Dimensions Diagram



READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

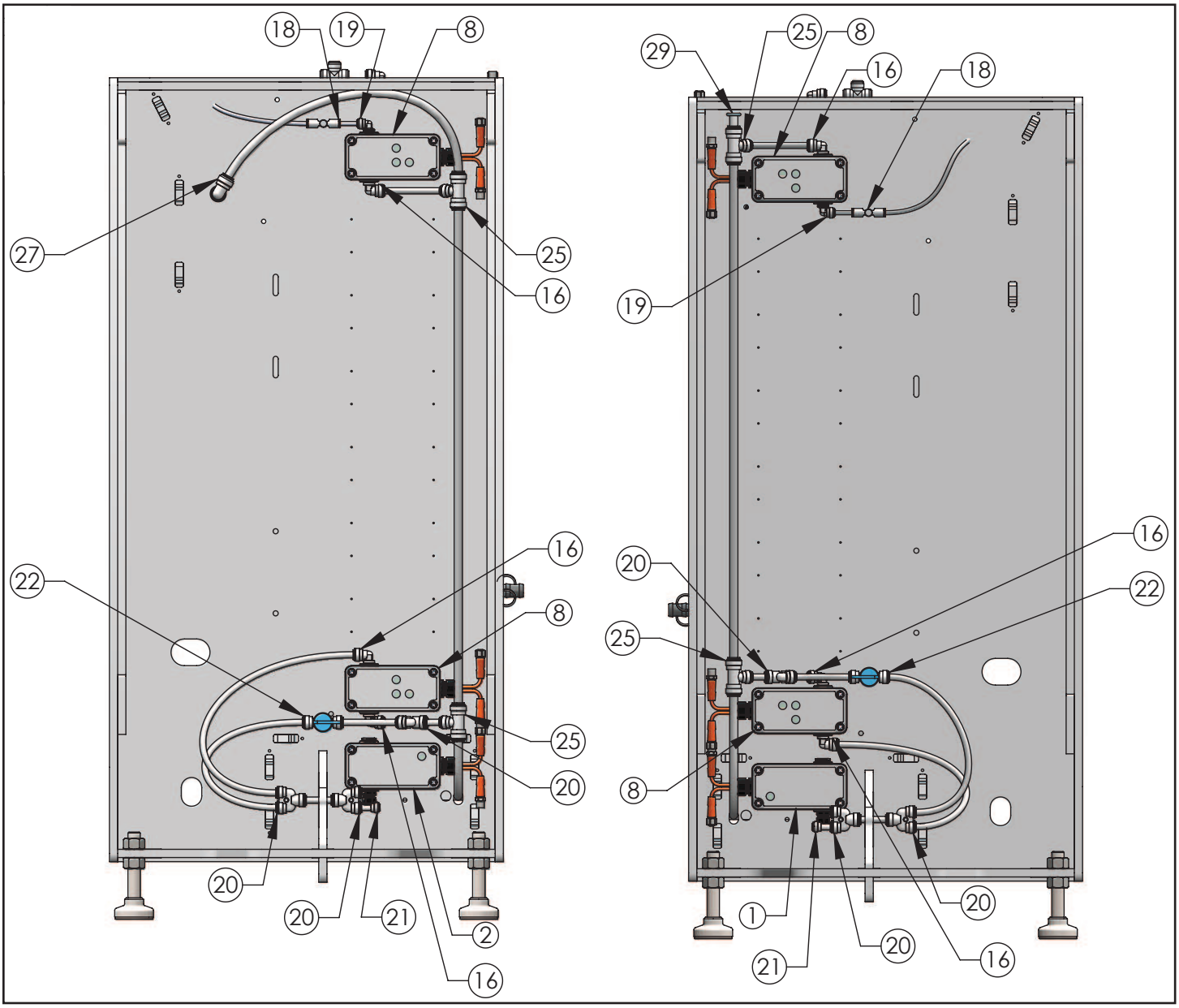
Exploded Views/BOMs

Model ALX-RDS | Exploded View



READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Model ALX-RDS | Exploded View



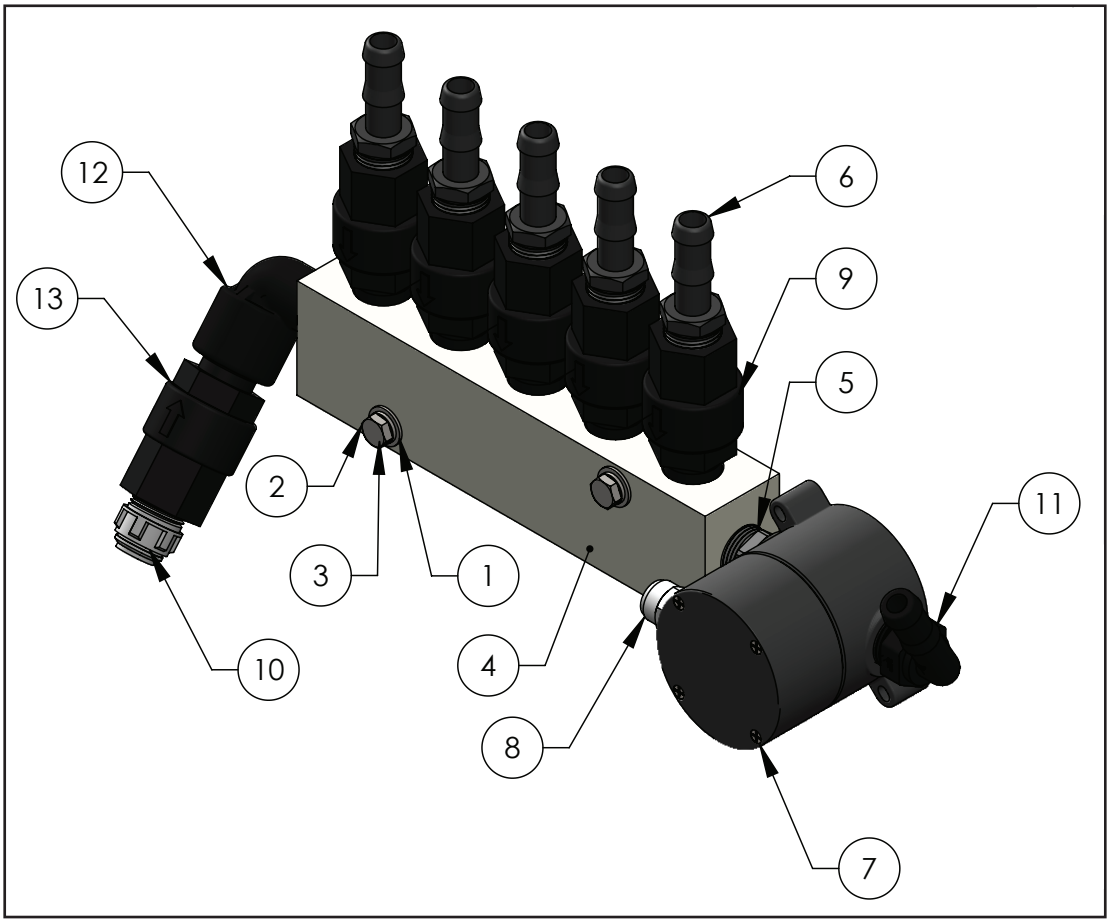
READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Model ALX-RDS | BOM

NO.	PART NUMBER	DESCRIPTION	QTY.
1	ALX-SC	ALX SCALE CONDITIONER ASSY (OPPOSITE ORIENTATION)	1
2	ALX-SC	ALX SCALE CONDITIONER ASSY	1
3	F1000	STANDOFF 1/4 X 1/2 X 1/2 SS	8
4	F1047	NUT NYLOCK 1/4-20 SS	8
5	F1056	WASHER 1/4 SS TYPE A	8
6	F1088	BOLT HHC 1/4-20 X 1-3/4 SS	8
7	M1221	JUG COLOR TAG RED	2
8	M1443	ALX PUMP CONTROLLER ASSY V2	6
9	M1452	SCALE ASSEMBLY ALX V3	2
10	M1459	JUG COLOR TAG GREEN	2
11	M1471	MDS TANK ASSEMBLY	1
12	M1471	MDS TANK ASSEMBLY	1
13	M1486	MDS TOWER	1
14	M1489	MDS WATER ASSY	1
15	M1492	AIR REGULATOR ASSY MDS	1
16	P1202	QUICK FIT ELBOW 3/8 NPT X 3/8" TUBE	12
17	P1214	QUICK FIT 3/8" T JOINT POLYPRO	2
18	P1217	QUICK EXHAUST VALVE 1/4" QUICK FIT	2
19	P1269	QUICK FIT ELBOW 3/8 NPT X 1/4" TUBE	2
20	P1291	QUICK FIT Y 3/8"	6
21	P1292	QUICK FIT STEM ELBOW 1/4" X 1/4"	2
22	P1370	SHUT OFF VALVE 3/8" TUBE PP	2
23	P1401	CAM COUPLER FEMALE 3/4" X 3/4" BARB	4
24	P1402	CAM COUPLER MALE 3/4" X 3/4" PIPE	4
25	P1410	QUICK FIT REDUCER TEE 1/2 X 1/2 X 3/8	4
26	P1416	PIPE HEX NIPPLE 3/4 POLY	4
27	P1420	QUICK FIT ELBOW 1/2	1
28	P1423	PIPE ELBOW 3/4" POLY	4
29	P1425	QUICK FIT PLUG 1/2"	1
30	P1444	GASKET VITON 3/4 CAM COUPLER	4
31	P1477	HUSKY GRACO 515 PUMP 3/4"	2

READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

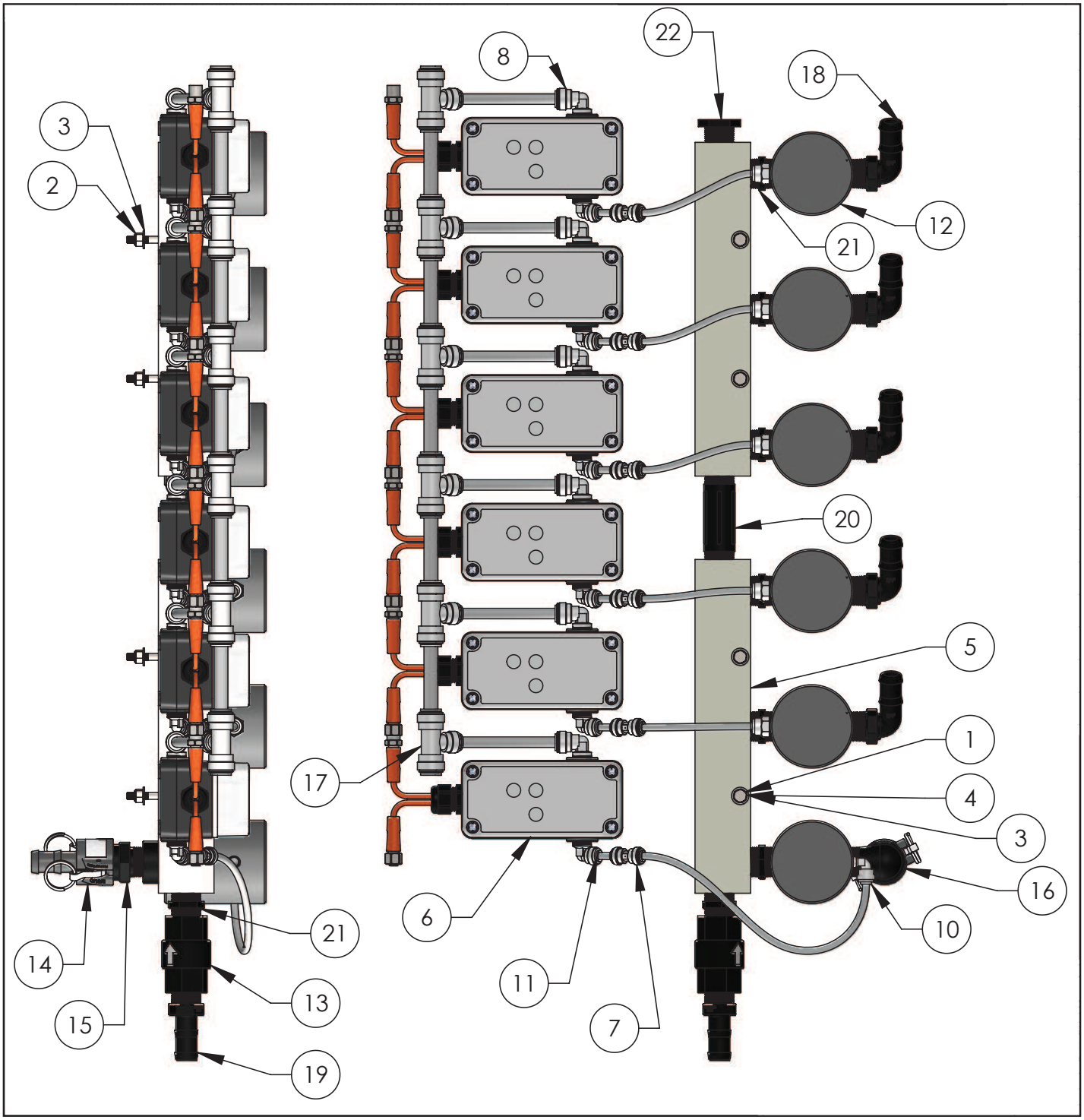
Model ALX-RDS-MAN-5



NO.	PART NUMBER	DESCRIPTION	QTY.
1	F1056	WASHER 1/4 SS TYPE A	2
2	F1127	BOLT HHC 1/4-20 X 2-1/4 X 3/4 SS	2
3	F1128	WASHER SPLIT LOCK 1/4 SS	2
4	M1321	MANIFOLD SHORT	1
5	P1136	PIPE HEX NIPPLE 1/2 X 1/2 POLY	1
6	P1137	PIPE ADAPTER HOSE BARB 1/2 X 1/2 POLY	5
7	P1145	1/2 NPT PLASTIC DIAPHRAGM VALVE	1
8	P1216	QUICK FIT ADAPTER 1/8" NPT X 1/4" TUBE	1
9	P1318	CHECK VALVE 1/2"F X 1/2"M 3# HASTELLOY/VITON	5
10	P1359	QUICK FIT ADAPTER 1/2" NPT X 3/8" TUBE	1
11	P1421	PIPE ADAPTER HOSE BARB 1/2 X 90 POLY	1
12	P1499	PIPE ELBOW STREET 1/2" POLY	1
13	P1502	CHECK VALVE 1/2"F X 1/2"M 0.5# HASTELLOY/VITON	1

READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Model ALX-RDS-DEST-5 | Parts Callout



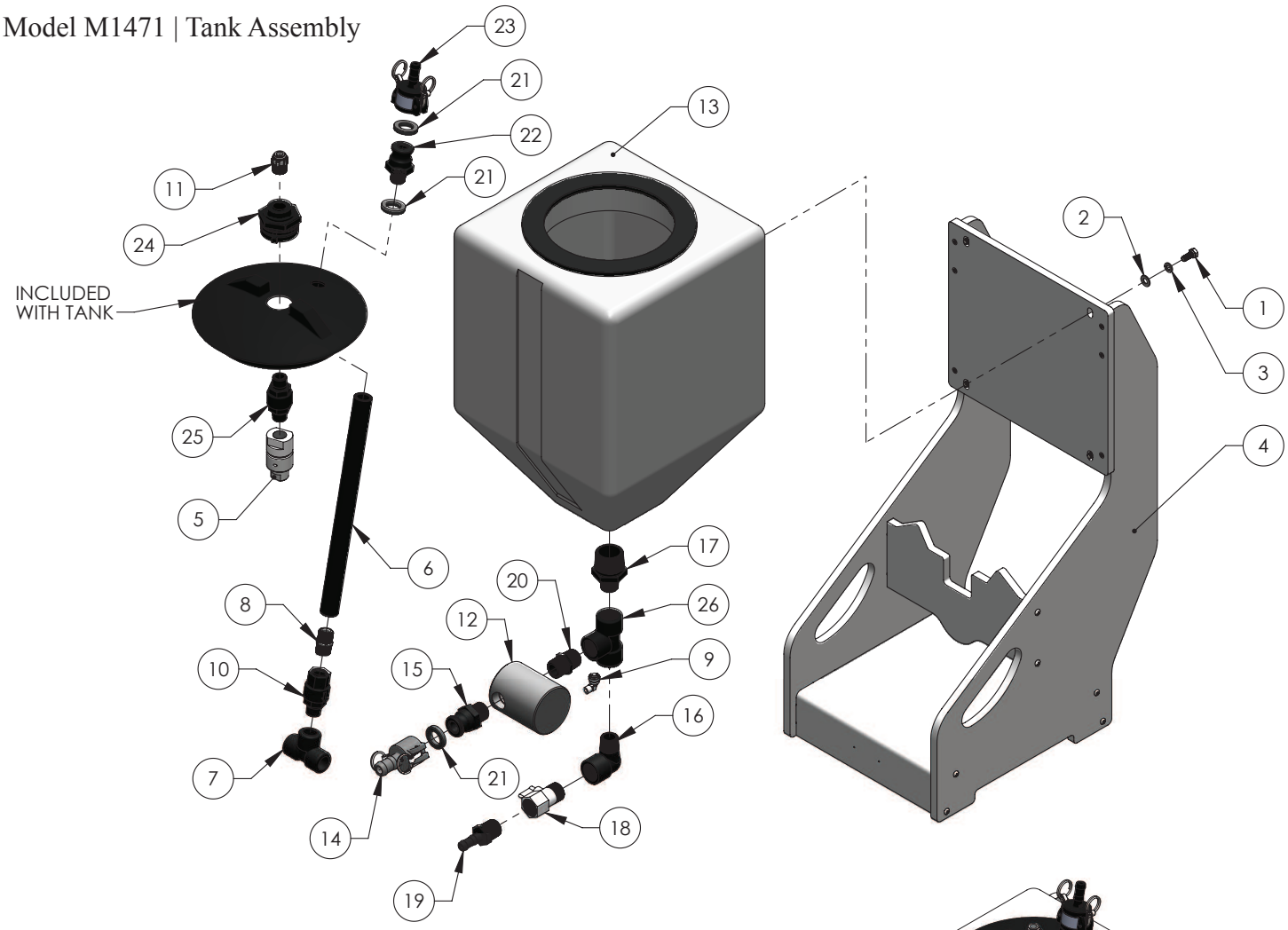
READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Model ALX-RDS-DEST-5 | BOM

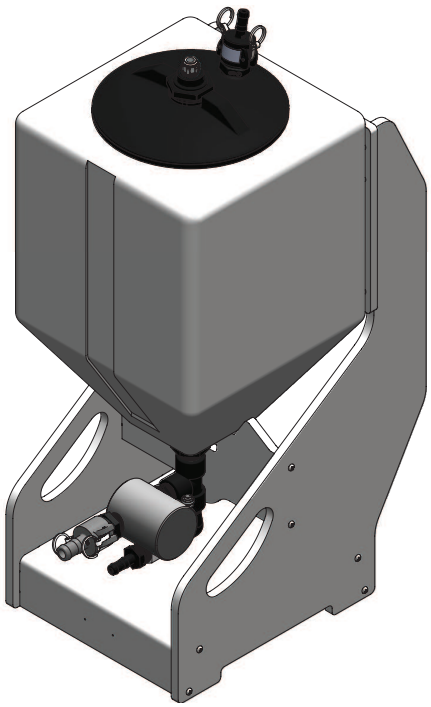
NO.	PART NUMBER	DESCRIPTION	QTY.
1	F1031	BOLT HHC 1/4-20 X 3-1/4 SS	4
2	F1047	NUT NYLOCK 1/4-20 SS	4
3	F1056	WASHER 1/4 SS TYPE A	8
4	F1128	WASHER SPLIT LOCK 1/4 SS	4
5	M1434	MANIFOLD 3/4" 3-PORT POLYPRO	2
6	M1443	ALX PUMP CONTROLLER ASSY V2	6
7	M1502	ALX-PC BLEED FITTING	6
8	P1202	QUICK FIT ELBOW 3/8 NPT X 3/8" TUBE	6
9	P1216	QUICK FIT ADAPTER 1/8" NPT X 1/4" TUBE	5
10	P1268	QUICK FIT ELBOW 1/8 NPT X 1/4" TUBE	1
11	P1269	QUICK FIT ELBOW 3/8 NPT X 1/4" TUBE	6
12	P1383	VALVE AIR-OP 3/4" PVC	6
13	P1393	CHECK VALVE 3/4" HASTELLOY/VITON	1
14	P1401	CAM COUPLER FEMALE 3/4" X 3/4" BARB	1
15	P1402	CAM COUPLER MALE 3/4" X 3/4" PIPE	1
16	P1403	PIPE ELBOW STREET 3/4" POLY	1
17	P1410	QUICK FIT REDUCER TEE 1/2 X 1/2 X 3/8	6
18	P1412	PIPE ADAPTER HOSE BARB 3/4 X 3/4 X 90 PP	5
19	P1414	PIPE ADAPTER HOSE BARB 3/4 X 3/4 PP	1
20	P1415	PIPE NIPPLE 3/4 X 4 POLY	1
21	P1416	PIPE HEX NIPPLE 3/4 POLY	7
22	P1417	PIPE PLUG 3/4 POLY	1
23	P1444	GASKET VITON 3/4 CAM COUPLER	1

READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Model M1471 | Tank Assembly

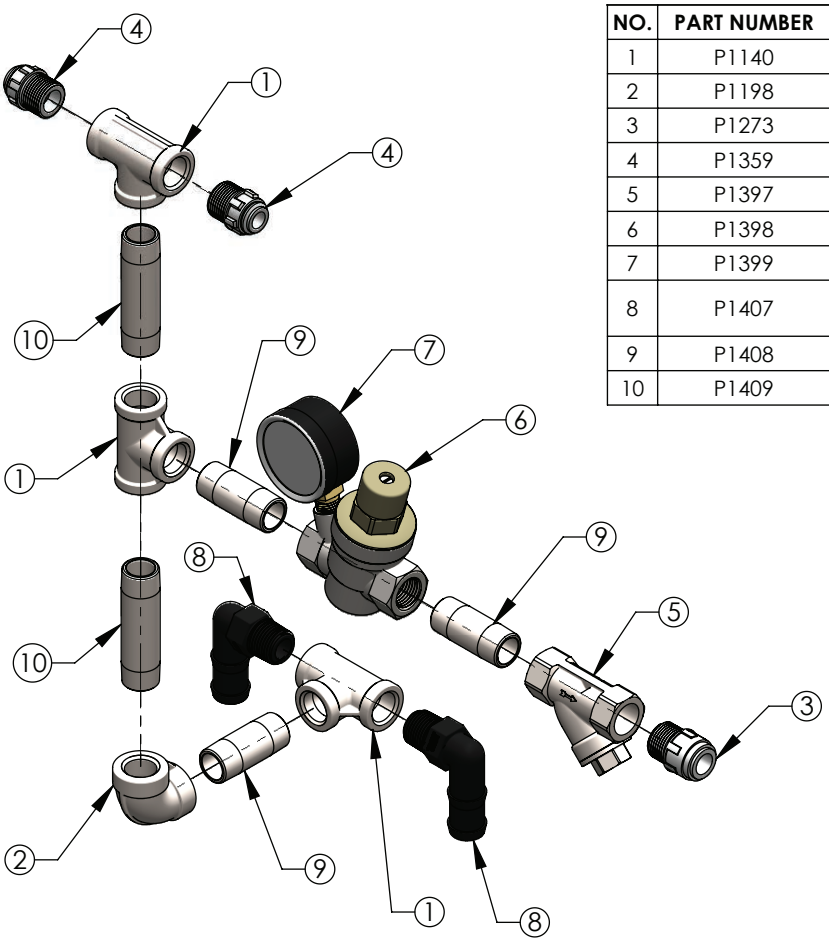


NO.	PART NUMBER	DESCRIPTION	QTY.
1	F1036	BOLT HHC 5/16-18 X 3/4 SS	4
2	F1054	WASHER 5/16 SS TYPE A	4
3	F1064	WASHER SPLIT LOCK 5/16 SS	4
4	M1465	SCALE TRAY TANK HOLDER ASSY	1
5	M1490	TANK WASHING NOZZLE 1/2"	1
6	M1613	FILL WAND 10 GALLON TANK	1
7	P1133	PIPE TEE 1/2 POLY	1
8	P1136	PIPE HEX NIPPLE 1/2 X 1/2 POLY	1
9	P1268	QUICK FIT ELBOW 1/8 NPT X 1/4" TUBE	1
10	P1318	CHECK VALVE 1/2"F X 1/2"M 3# HASTELLOY/VITON	1
11	P1359	QUICK FIT ADAPTER 1/2" NPT X 3/8" TUBE	1
12	P1383	VALVE AIR-OP 3/4" PVC	1
13	P1387	10 g POLY RINSE TANK SLOPE BOTTOM	1
14	P1401	CAM COUPLER FEMALE 3/4" X 3/4" BARB	1
15	P1402	CAM COUPLER MALE 3/4" X 3/4" PIPE	1
16	P1403	PIPE ELBOW STREET 3/4" POLY	1
17	P1404	PIPE REDUCER NIPPLE 1-1/4" X 3/4" POLY	1
18	P1411	VALVE BALL 3/4" PVC MALE-FEMALE	1
19	P1413	PIPE ADAPTER HOSE BARB 3/4 NPT X 1/2 PP	1
20	P1416	PIPE HEX NIPPLE 3/4 POLY	1
21	P1444	GASKET VITON 3/4 CAM COUPLER	3
22	P1495	CAM COUPLER MALE 3/4 X 1/2 NPT	1
23	P1496	CAM COUPLER FEMALE 3/4 X 1/2" BARB	1
24	P1498	BULKHEAD TANK FITTING 1/2" NPT	1
25	P1501	CHECK VALVE 1/2"M X 1/2"M 7# HASTELLOY/VITON	1
26	P1503	PIPE TEE 3/4 POLY	1

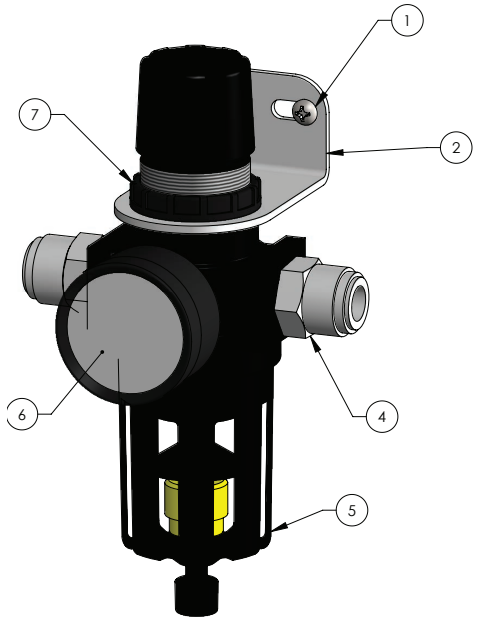


READ ALL INSTRUCTIONS BEFORE OPERATING EQUIPMENT

Models M1489 & M1492 | Water & Air Regulators



NO.	PART NUMBER	DESCRIPTION	QTY.
1	P1140	PIPE TEE 1/2 SS	3
2	P1198	PIPE ELBOW 1/2 X 90 SS	1
3	P1273	QUICK FIT ADAPTER 1/2" NPT x 1/2" TUBE	1
4	P1359	QUICK FIT ADAPTER 1/2" NPT X 3/8" TUBE	2
5	P1397	STRAINER Y 1/2" NPT 316SS 100 MICRON	1
6	P1398	PRESSURE REGULATOR WATER 1/2" SS	1
7	P1399	PRESSURE GAUGE WRG14	1
8	P1407	PIPE ADAPTER HOSE BARB 1/2" NPT X 3/4" BARB X 90 PP	2
9	P1408	PIPE NIPPLE 1/2 X 2 SS	3
10	P1409	PIPE NIPPLE 1/2 X 3 SS	2



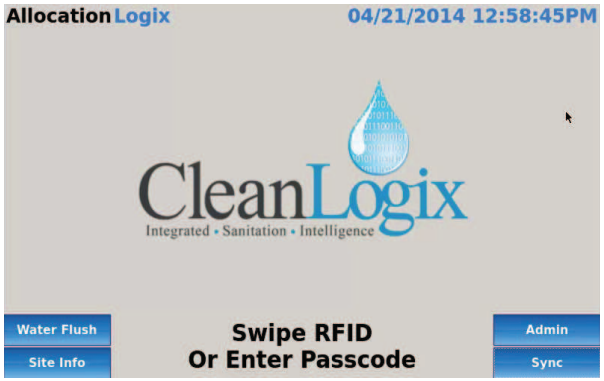
NO.	PART NUMBER	DESCRIPTION	QTY.
1	F1075	SCREW SELF TAP 10-16 X 1/2 SS	2
2	M1521	REGULATOR BRACKET R38	1
3	P1207	PIPE HEX PLUG 1/8 POLY	1
4	P1418	QUICK FIT 3/8 NPT X 1/2 TUBE	2
5	P1419	REGULATOR AIR 3/8"	1
6	P1483	PRESSURE GAUGE 0-100psi 1/4 NPT	1
7	P1484	NUT R38 REGULATOR MOUNTING	1

CLEAN LOGIX MEMBRANE DOSING SYSTEM DISPENSING INSTRUCTIONS

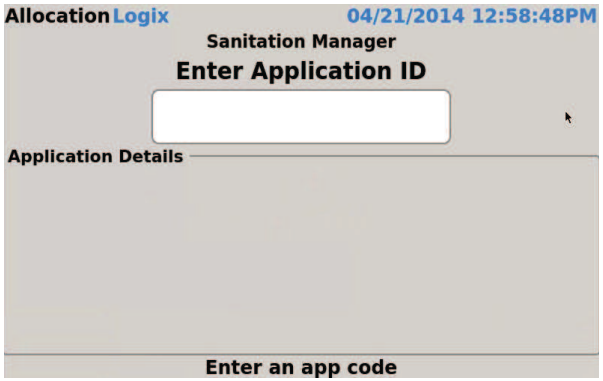
ALWAYS WEAR THE PROPER PPE'S (INCLUDING FACESHIELD) WHILE DISPENSING CHEMICALS

Leave Main Power ON at all times

1. Type in your 4 digit user code to login. A correct passcode will bring you to the Pre-Dispense screen. Incorrect codes will appear in RED. If your code is entered incorrectly, press CLR/DEL button to go back.



Home Screen: Type passcode to login



Passcode Entered **Correctly**

Passcode Entered **Incorrectly**

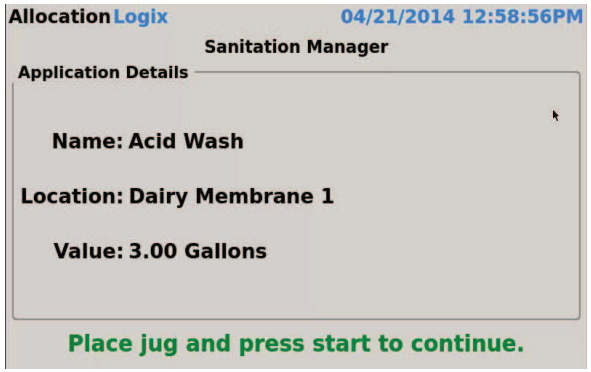
2. Enter the code for the application you want to dispense. A description will come up to confirm the formula.

3. Press ENTER or START to continue.

CLEAN LOGIX MEMBRANE DOSING SYSTEM DISPENSING INSTRUCTIONS

ALWAYS WEAR THE PROPER PPE'S (INCLUDING FACESHIELD) WHILE DISPENSING CHEMICALS

4. Press START again to begin the dispense.

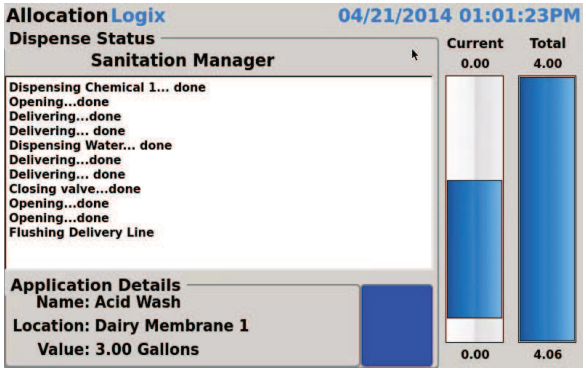


DO NOT LEAVE THE UNIT UNATTENDED WHILE IT IS DISPENSING CHEMICAL!

DO NOT DO ANY OF THE FOLLOWING WHILE A DISPENSE IS IN PROCESS:

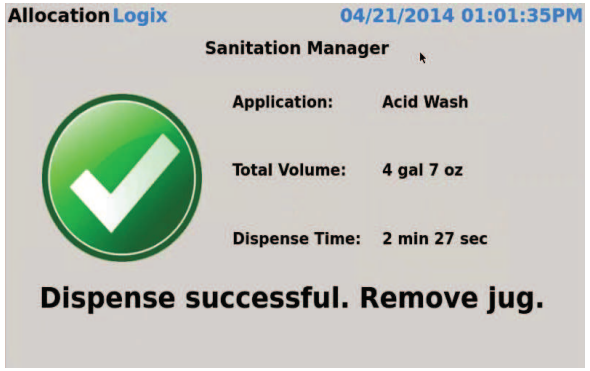
1. TOUCH THE JUG
2. TOUCH THE SCALE
3. TOUCH OR LEAN AGAINST THE TOWER

5. The application will begin to dispense.



IMPORTANT: IF APPLICATION NEEDS TO BE STOPPED DURING DISPENSE, PRESS STOP

6. Once the application is finished, press STOP to return to the home screen, or press START to dispense another application.



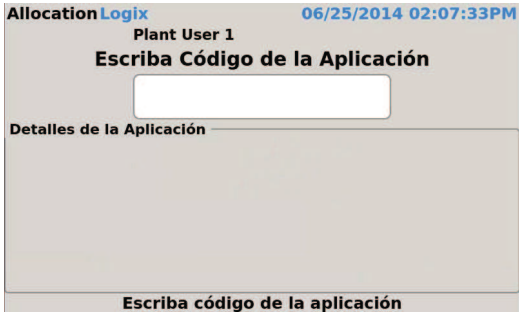
CHEMICAL ALLOCATION LOGIX INSTRUCCIONES

SIEMPRE USAR LA ROPA ADECUADA (INCLUYENDO LA CARETA) CUANDO SE DISTRIBUYE PRODUCTOS QUÍMICOS

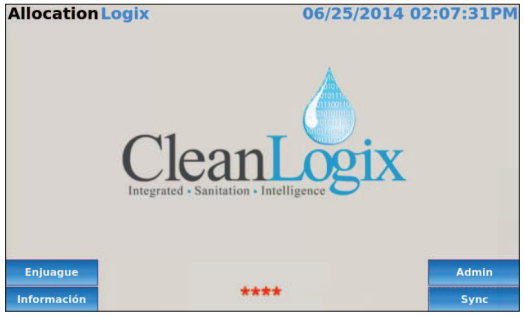
Deje el Interruptor de Alimentación Principal en Todo Momento

1. Escriba su código de usuario de 4 dígitos que entrar. Si se ha introducido correctamente el código, se le llevará a la siguiente pantalla. Si se introduce el código de forma incorrecta, el asteriscos se volverá ROJO. Si se introduce el código de forma incorrecta, pulse la tecla CLR / DEL para borrar los números erróneos, y vuelva a intentarlo.

Pantalla de Inicio: Tipo de Contraseña

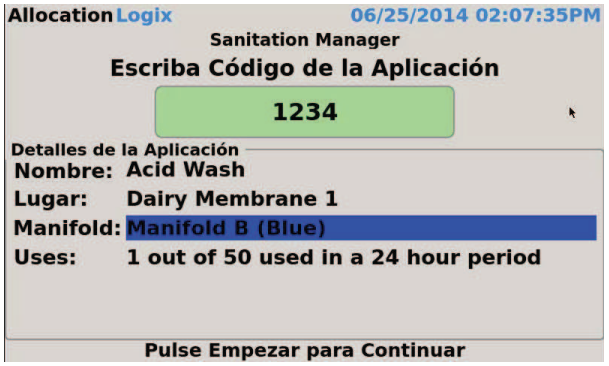


Código de Acceso Introducido **Correctamente**



Código de Acceso Introducido **Incorrectamente**

2. Escriba el código para la fórmula que quiere dispensar. Una descripción se van a plantear para confirmar la fórmula.

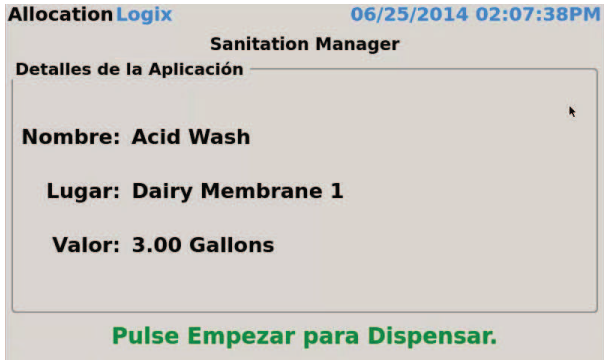


3. Pulse ENTER o START para continuar.

CHEMICAL ALLOCATION LOGIX INSTRUCCIONES

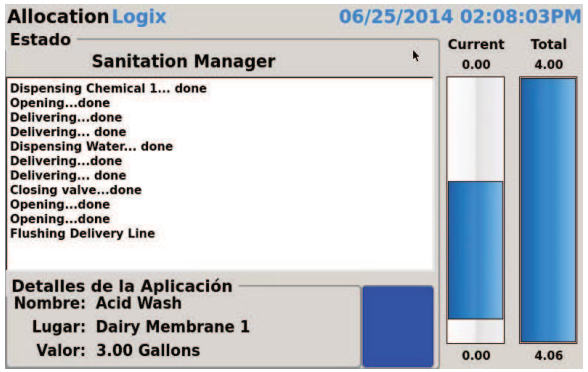
SIEMPRE USAR LA ROPA ADECUADA (INCLUYENDO LA CARETA) CUANDO SE DISTRIBUYE PRODUCTOS QUÍMICOS

4. Presione START para confirmar la dispensación.



NO TOQUE EL JARRA, LA ESCALA, O LA TORRE, DURANTE LA DISPENSACIÓN

5. Aplicación comenzará a dispensar.



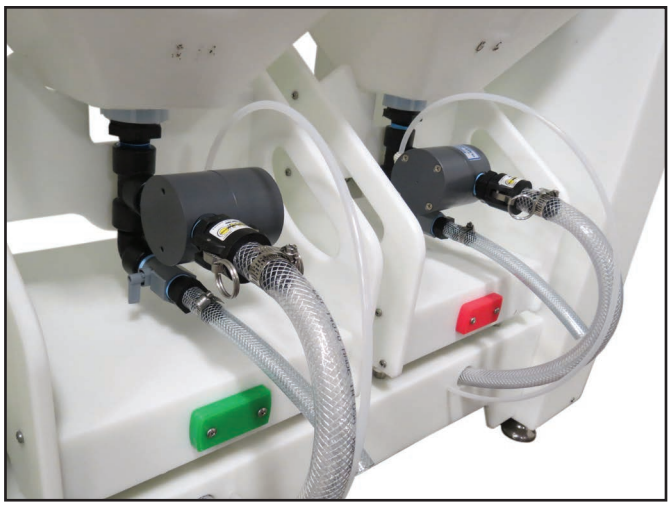
IMPORTANTE: SI SE NECESITA TERMINAR, PULSE "STOP"

6. Cuando haya terminado de la dispensación, pulse STOP para cerrar el sesión.

MANUALLY REMOVING CHEMICAL FROM THE TANKS

ALWAYS WEAR THE PROPER PPE'S (INCLUDING FACESHIELD) WHILE DISPENSING CHEMICALS

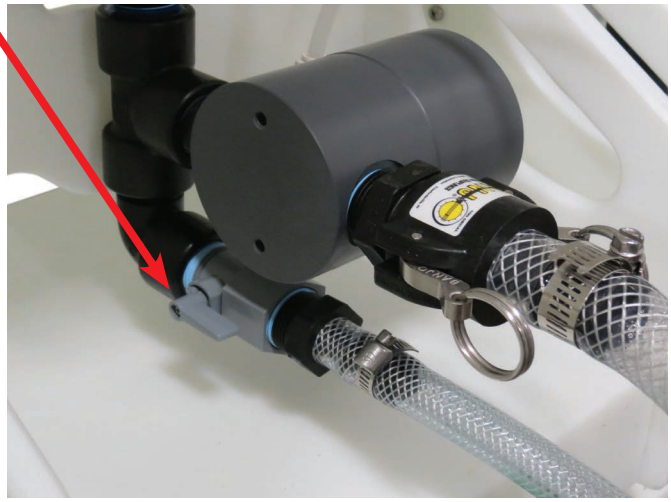
Read through the following instructions if chemical becomes trapped in the 10 gallon tank.



Point the discharge hose on the bottom of the tank into a jug or drain. Chemical will flow out from here.

Open the ball valve on the bottom of the 10 gallon tank.

Once this is opened, chemical will begin to flow out.

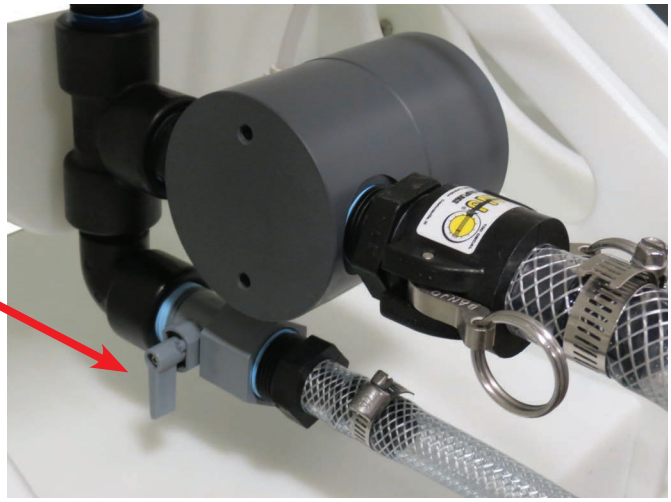


Once all of the chemical is removed from the tank, close the valve.

Prime the pump for water on that manifold to rinse the tank and flush the manifold. *See Page 21 for instructions on priming the pump for water.*

After the tank has been rinsed and the manifold has been flushed, open the ball valve on the bottom of the 10 gallon tank again to drain the water out the discharge line.

Close the valve when completed.



Ensure that the ball valve is closed before dispensing, otherwise chemical will leak out of the tank when a dispense is run!